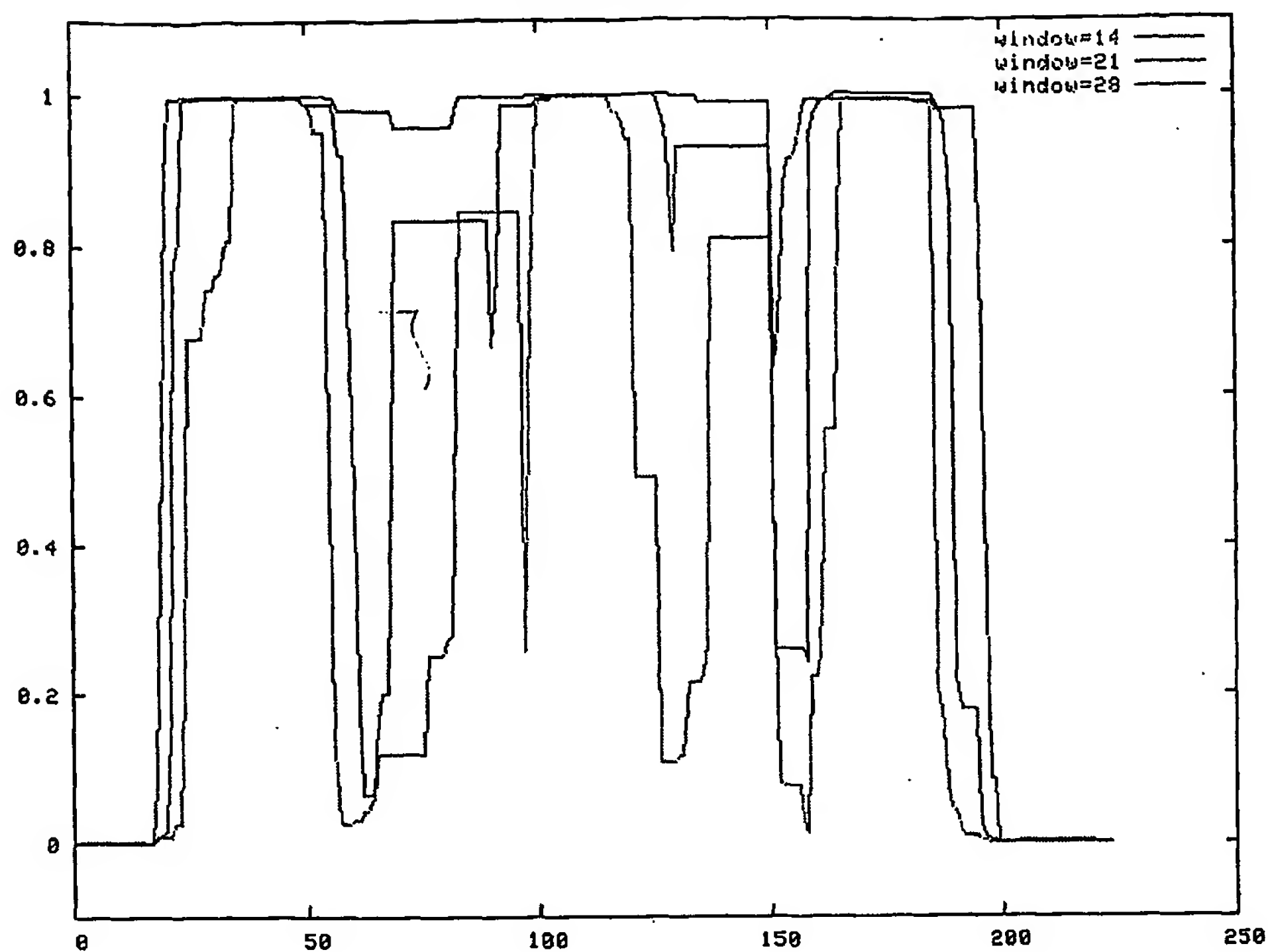
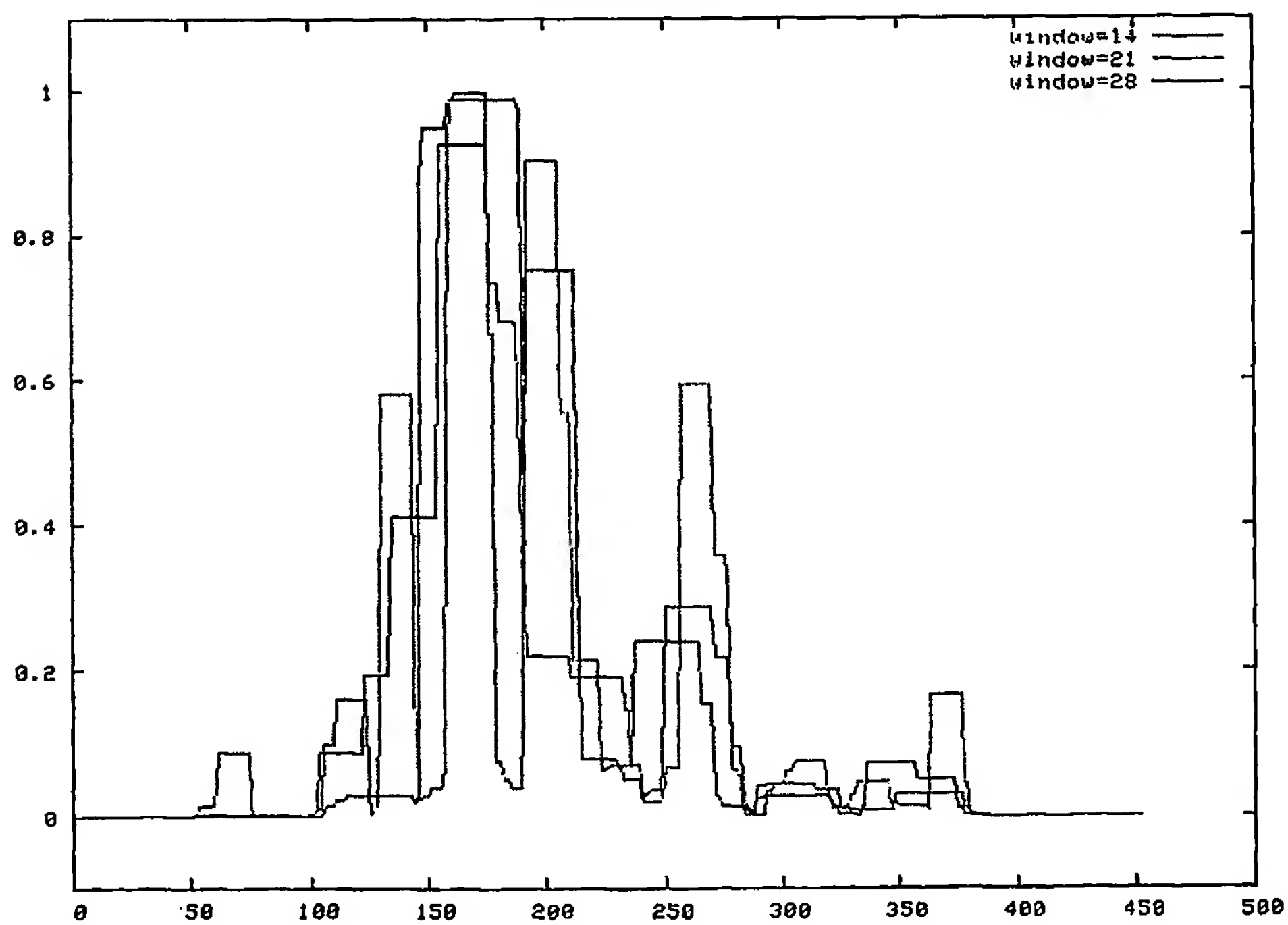
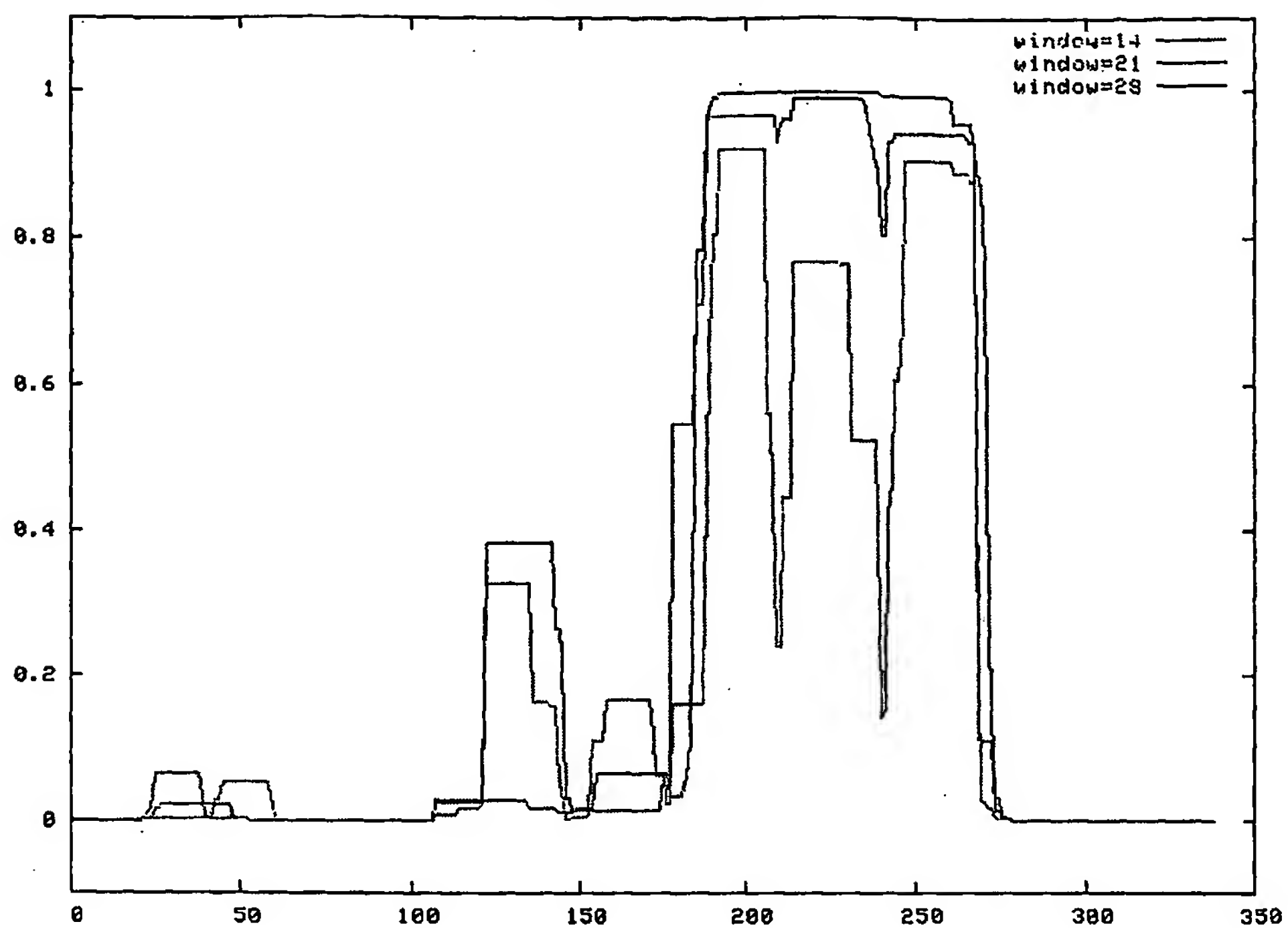
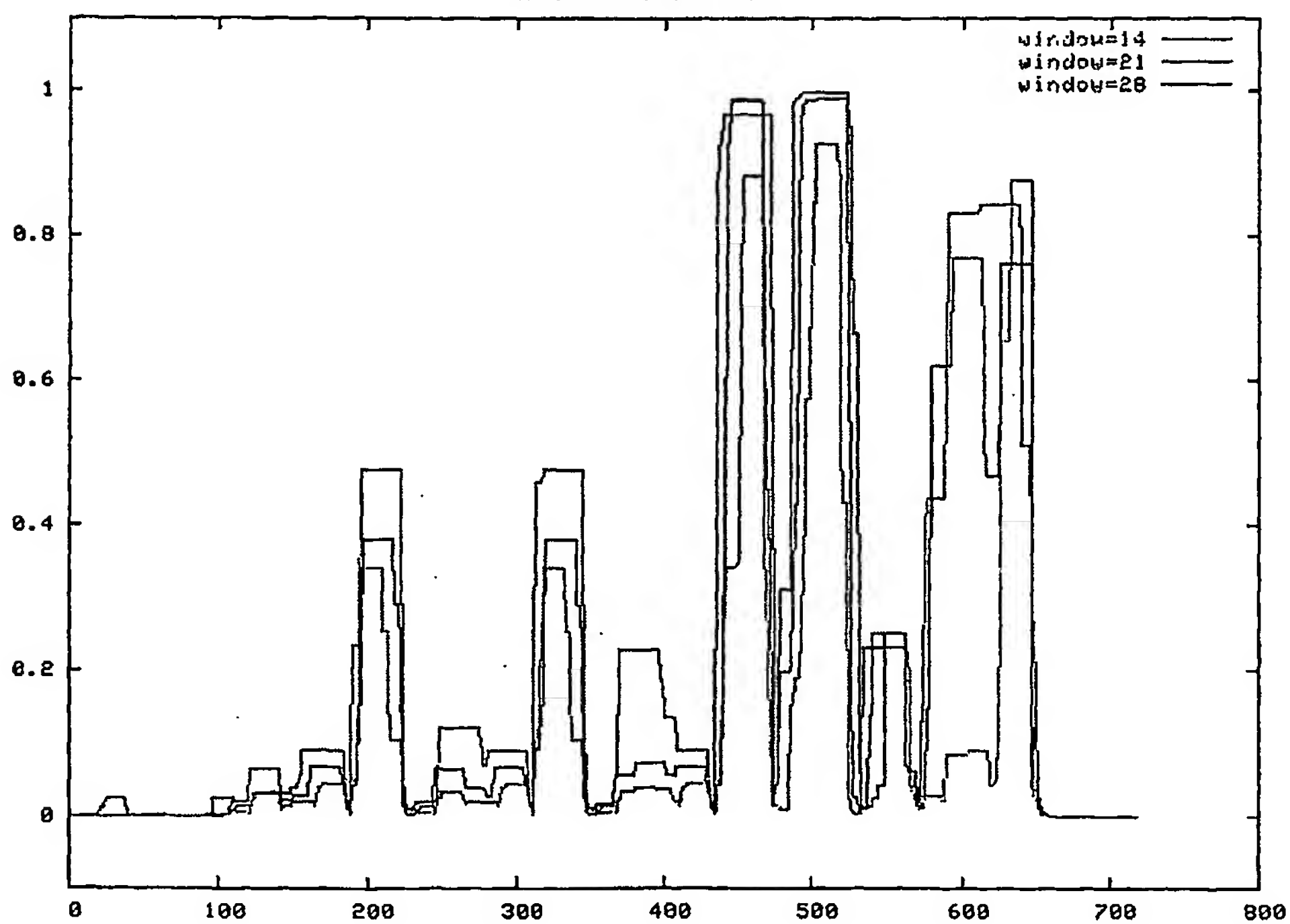


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FIGURE 1**FIGURE 2**

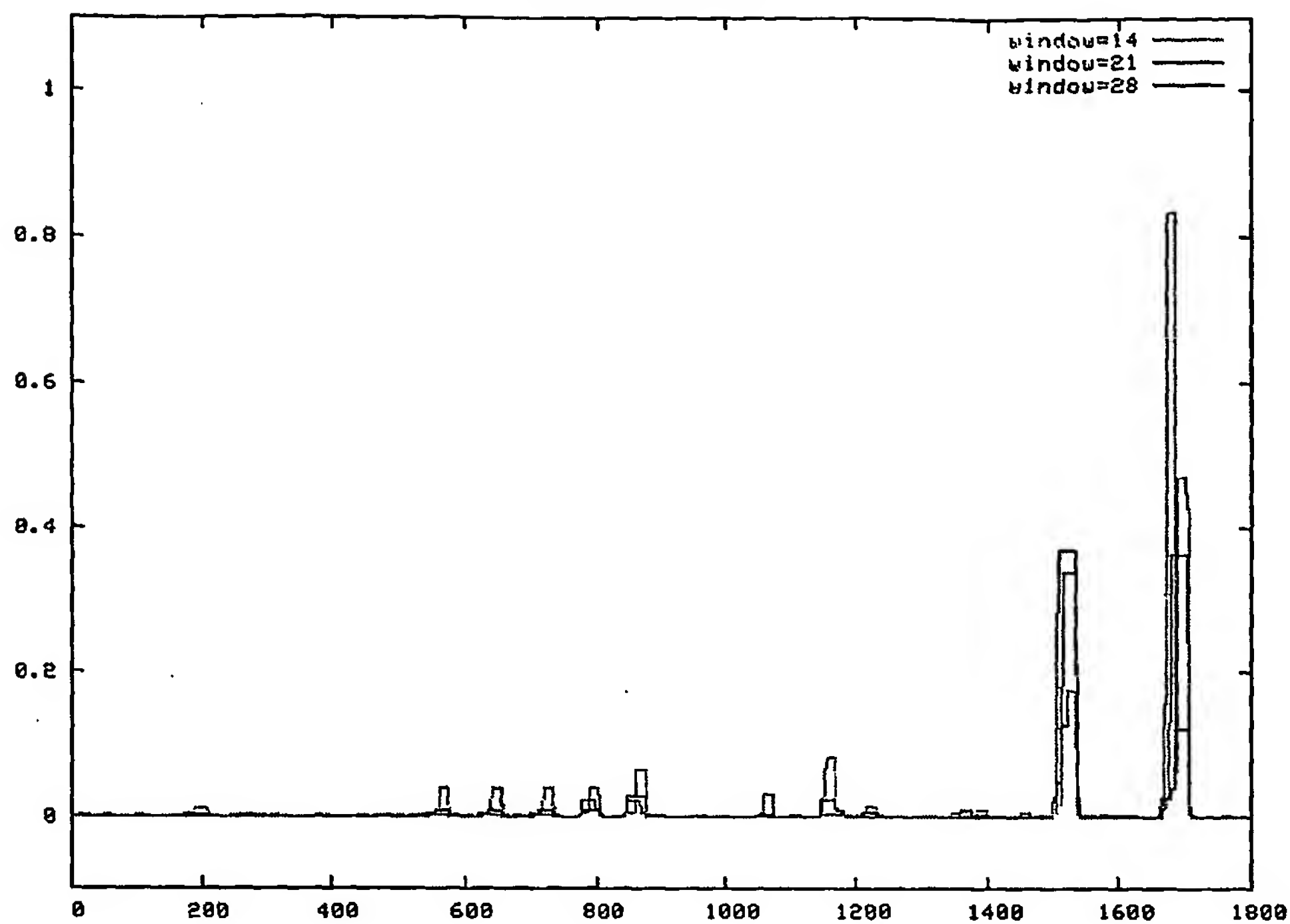
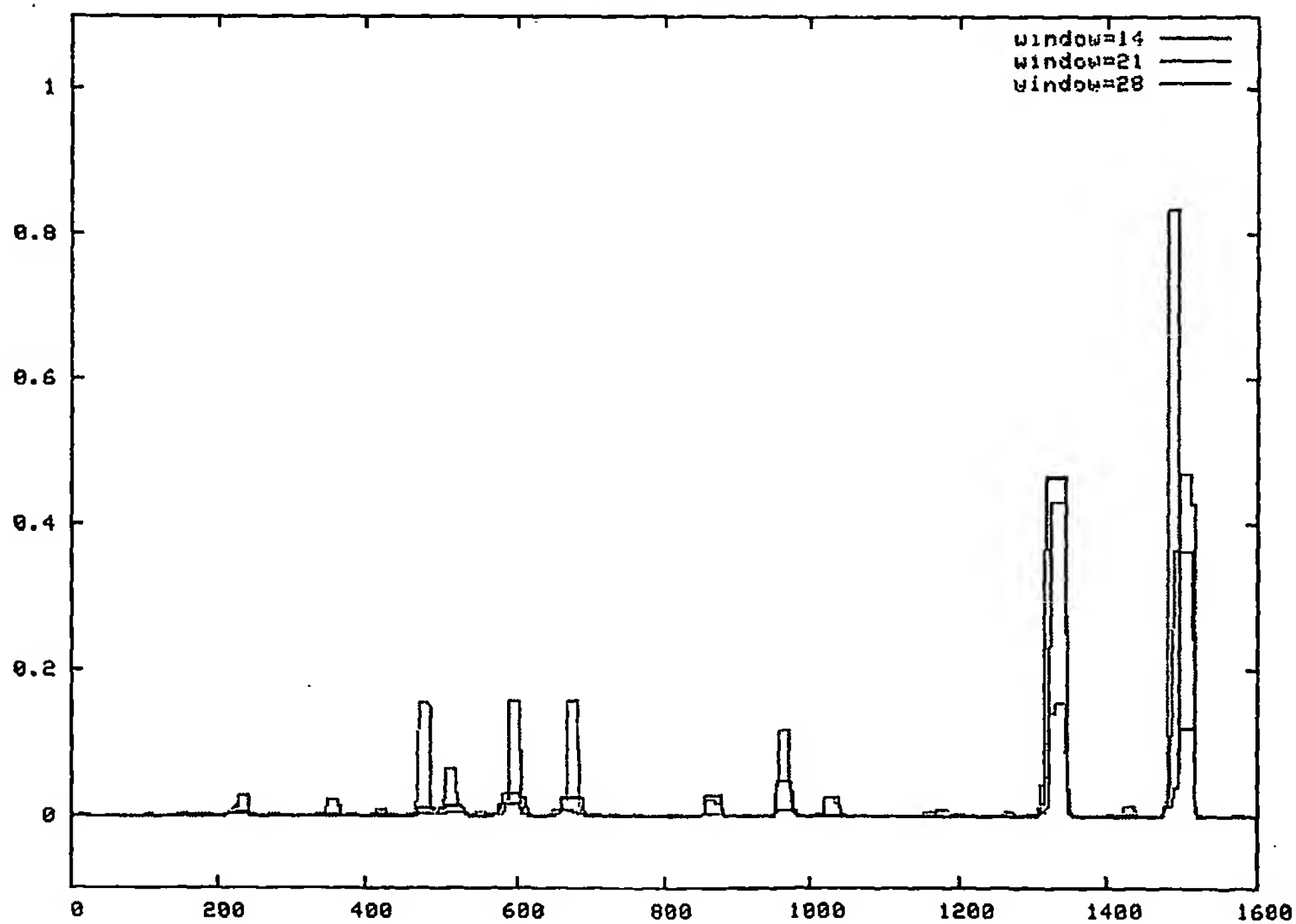
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FIGURE 3**FIGURE 4**

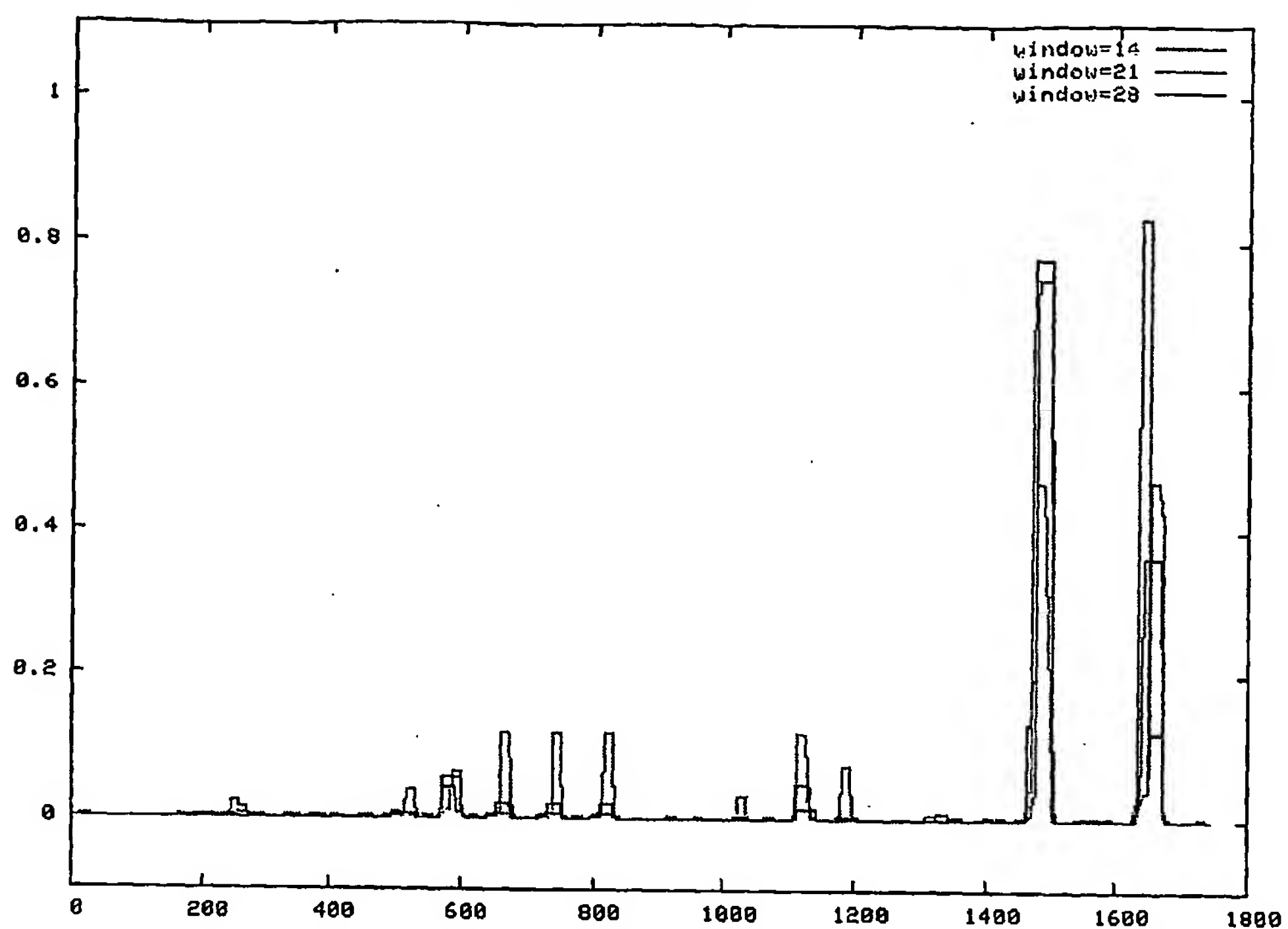
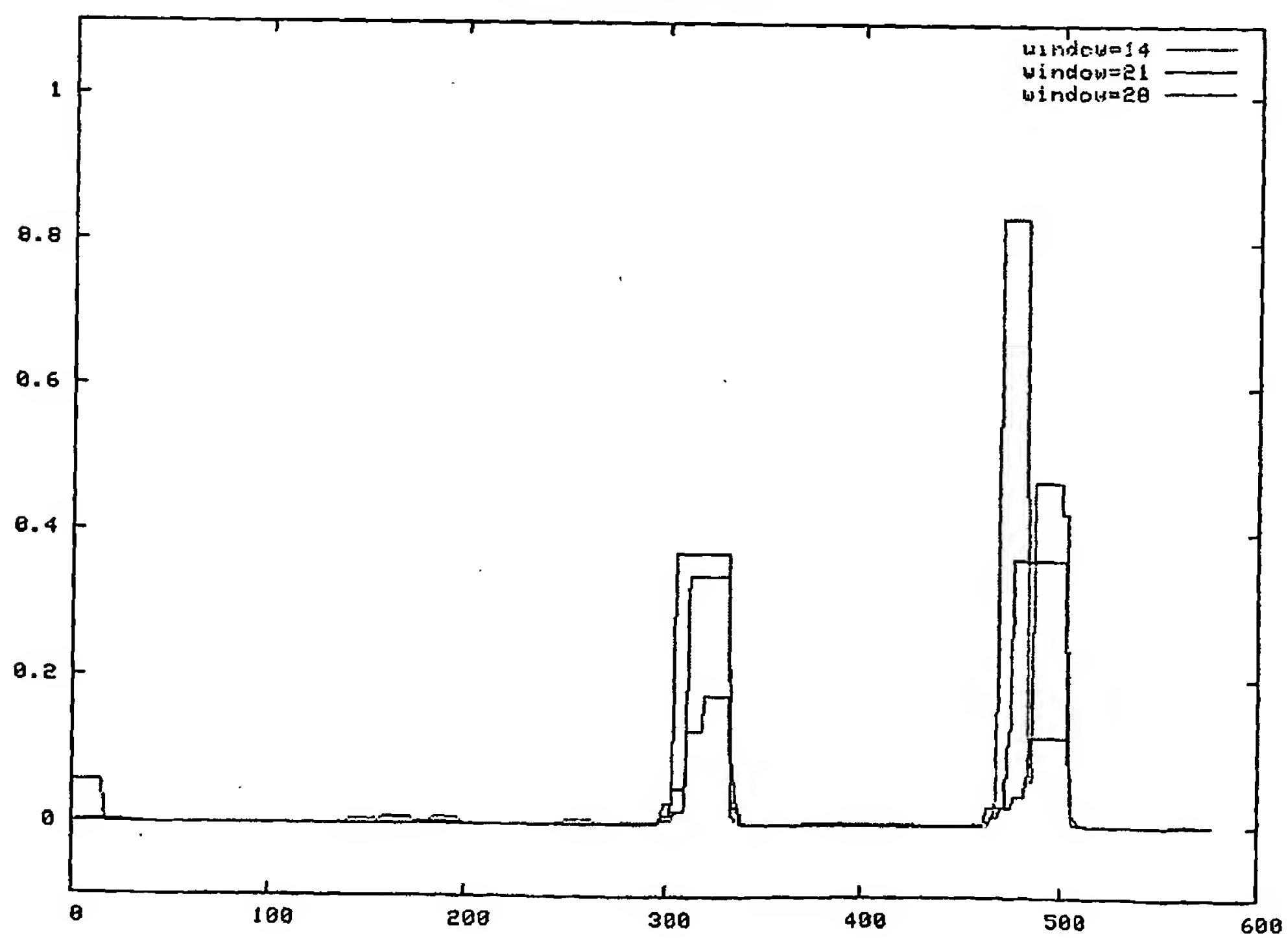
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FIGURE 5**FIGURE 6**

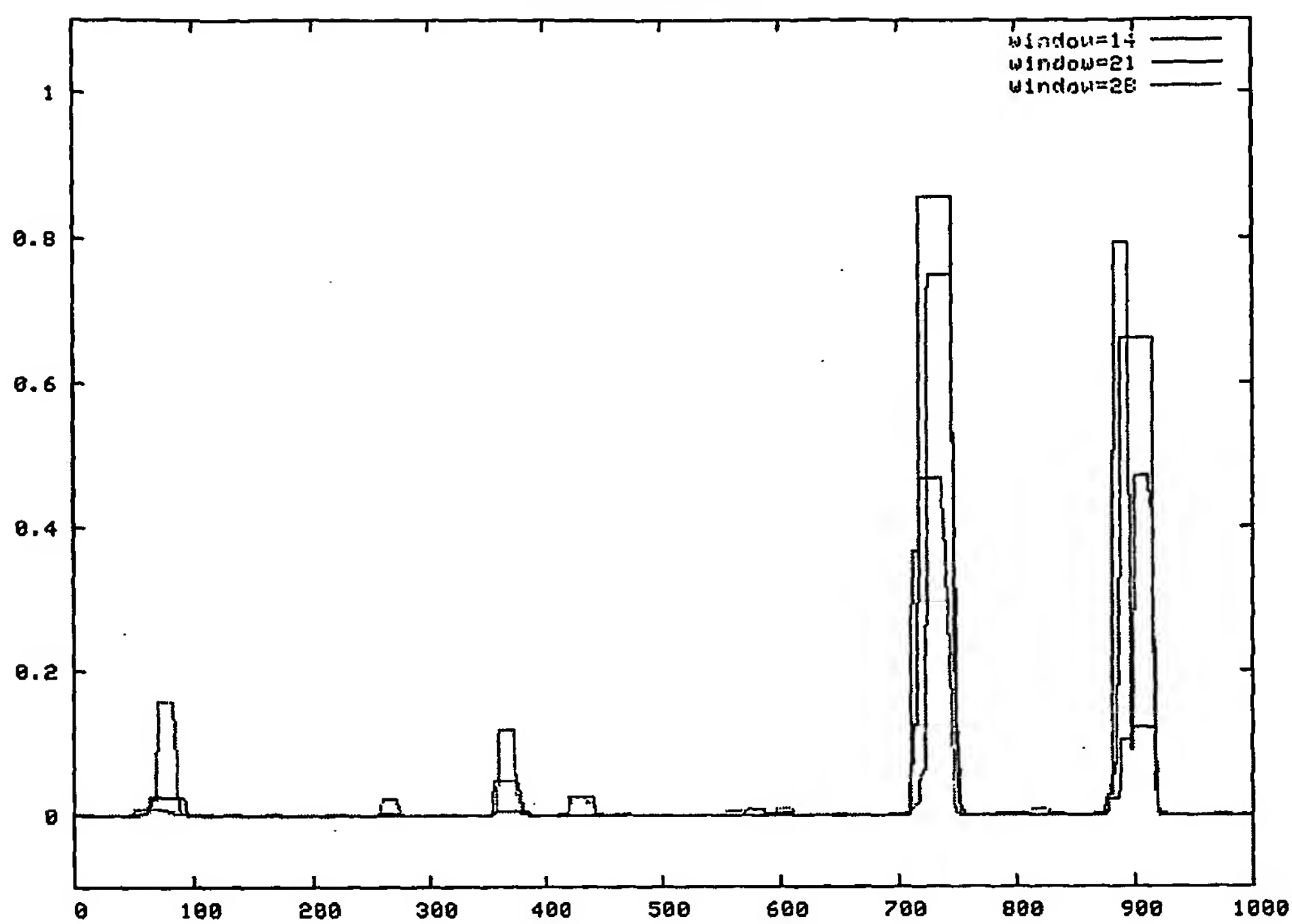
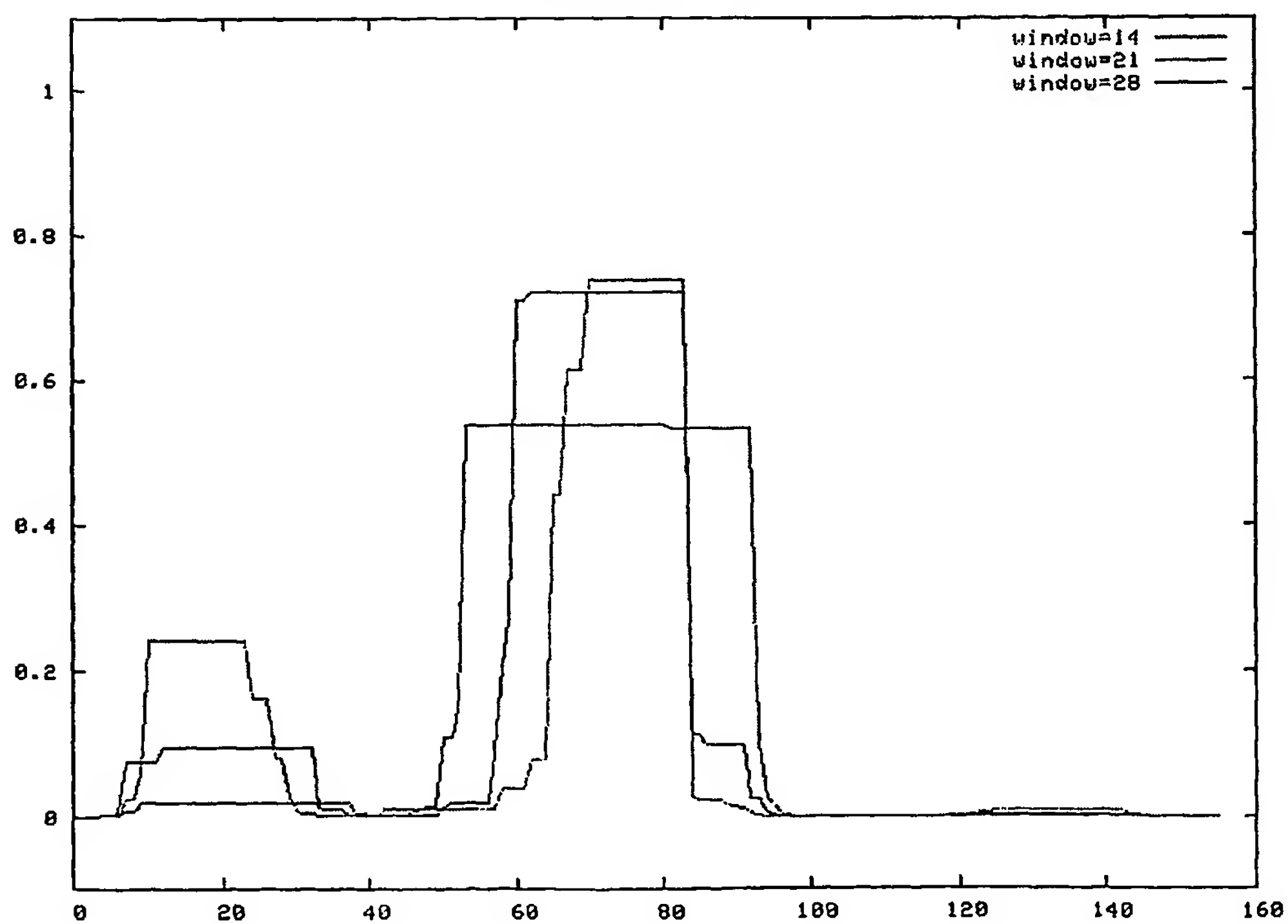
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FIGURE 7**FIGURE 8**

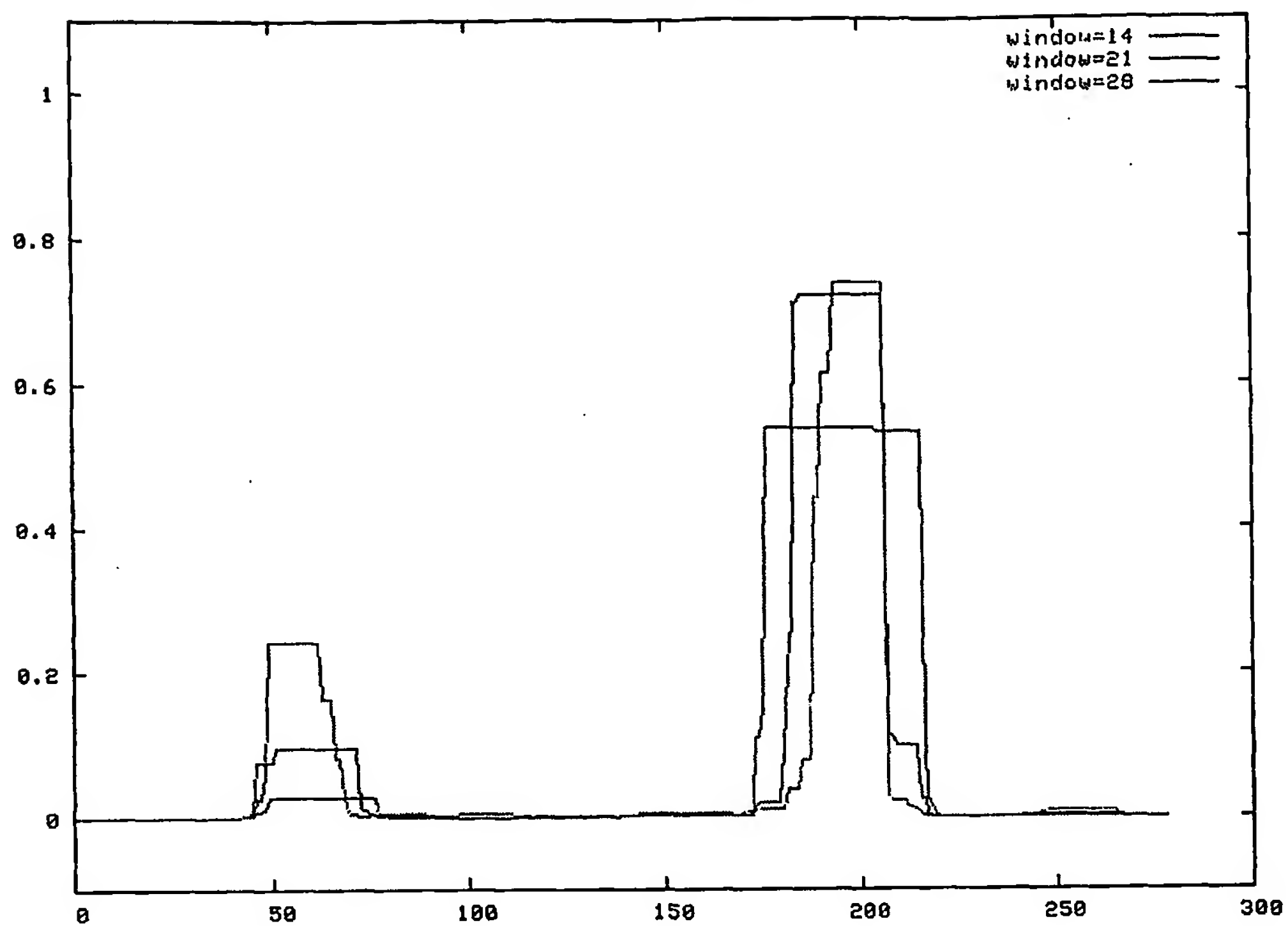
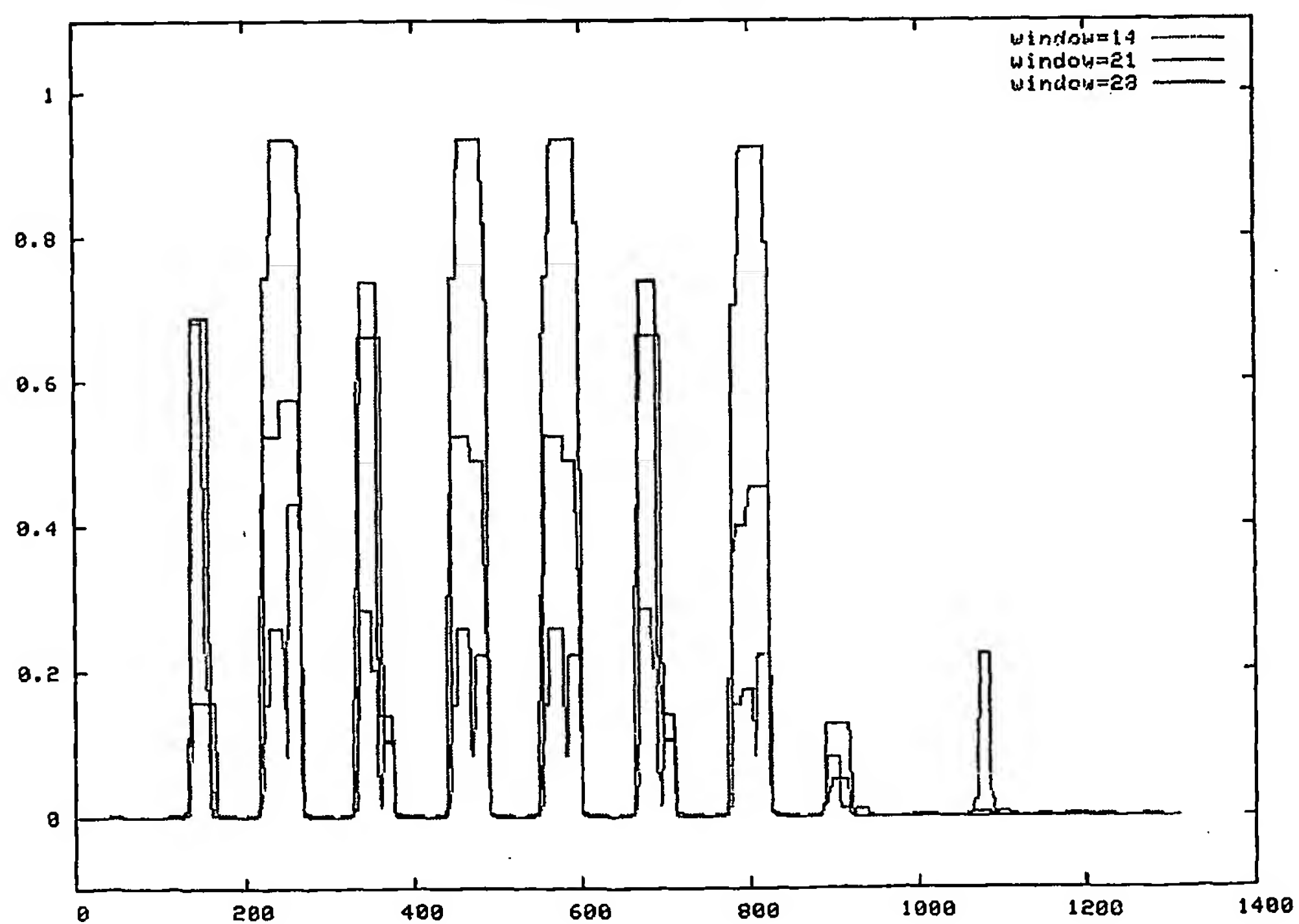
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FIGURE 9**FIGURE 10**

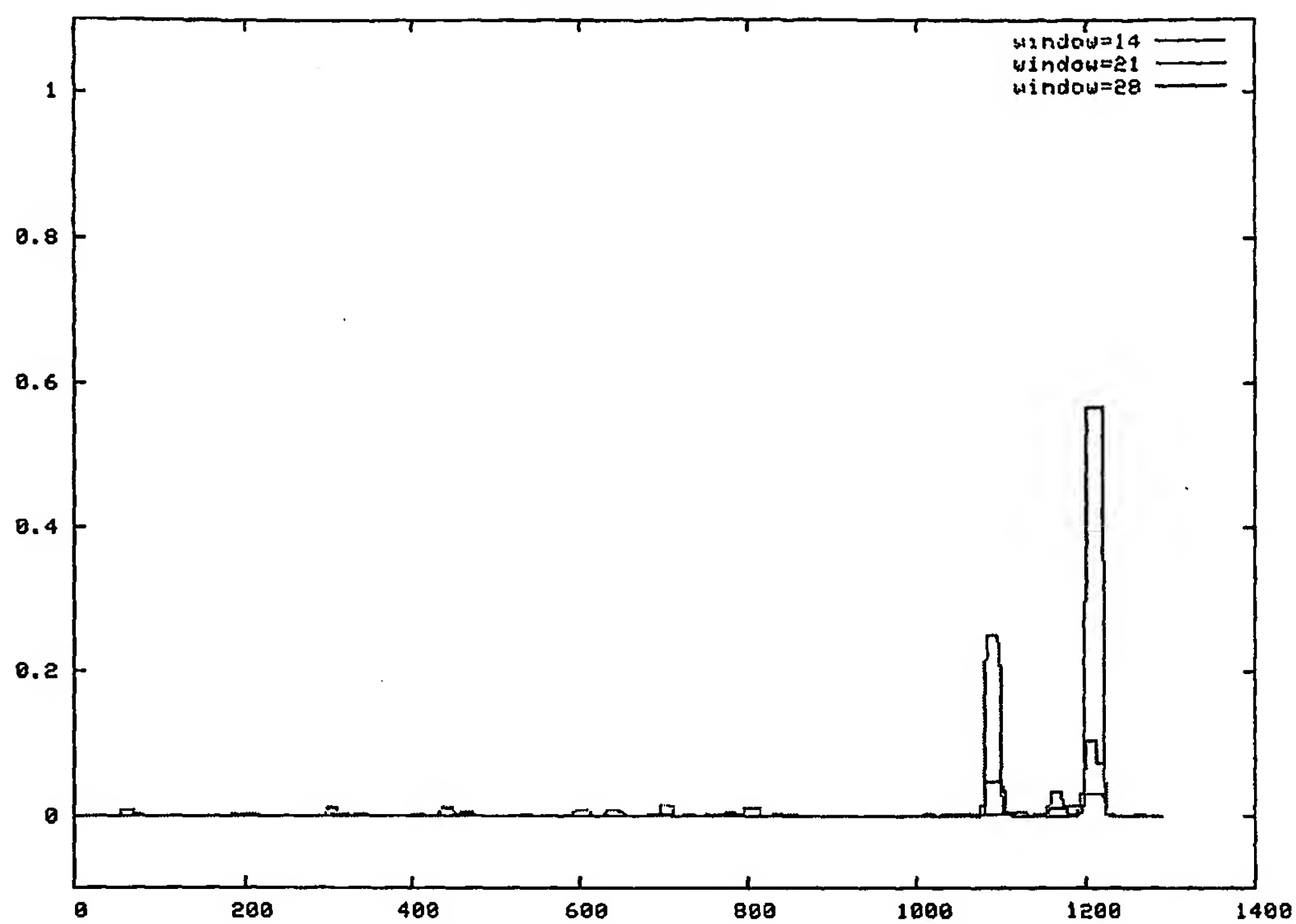
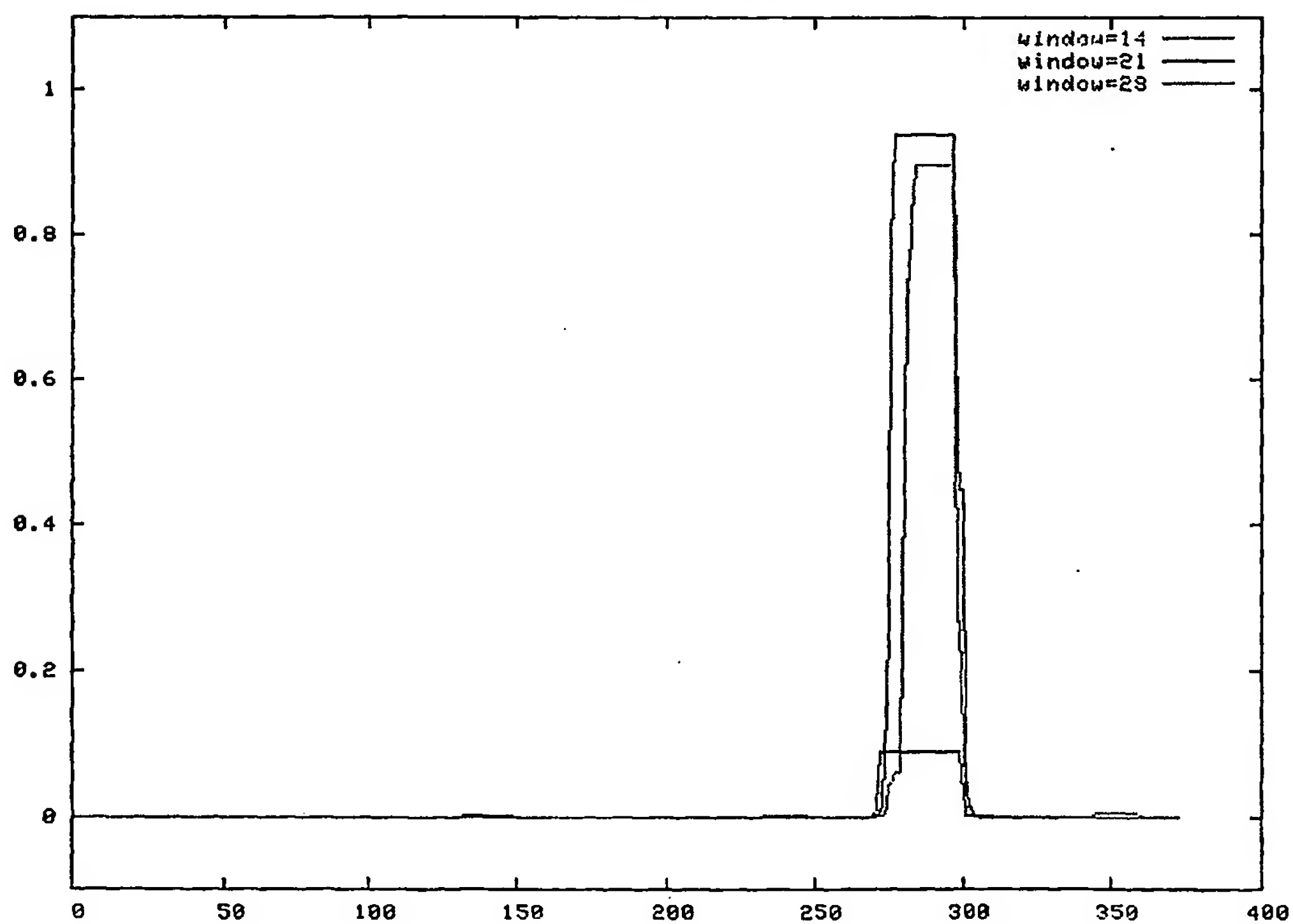
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FIGURE 11**FIGURE 12**

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FIGURE 13**FIGURE 14**

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FIGURE 15

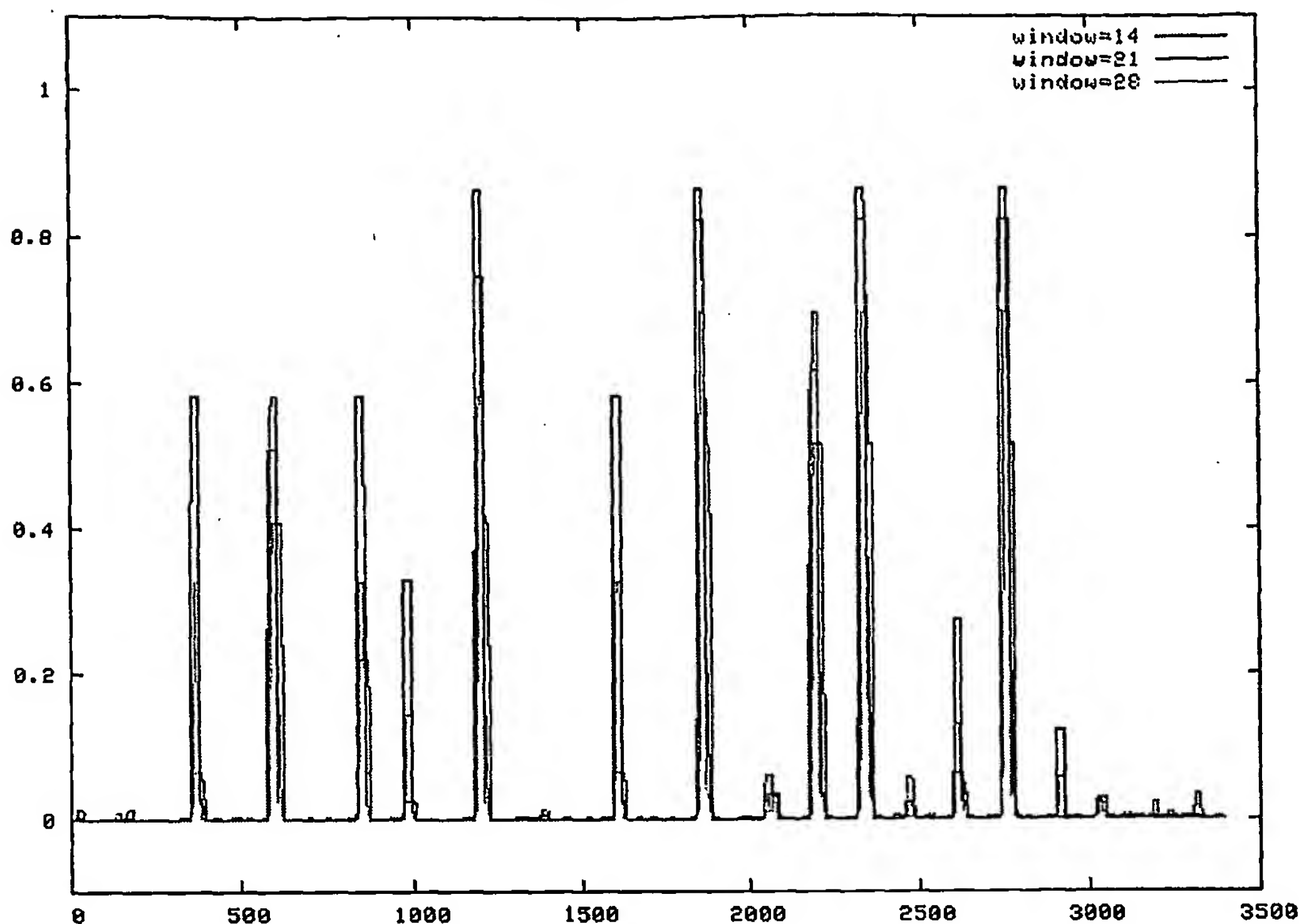


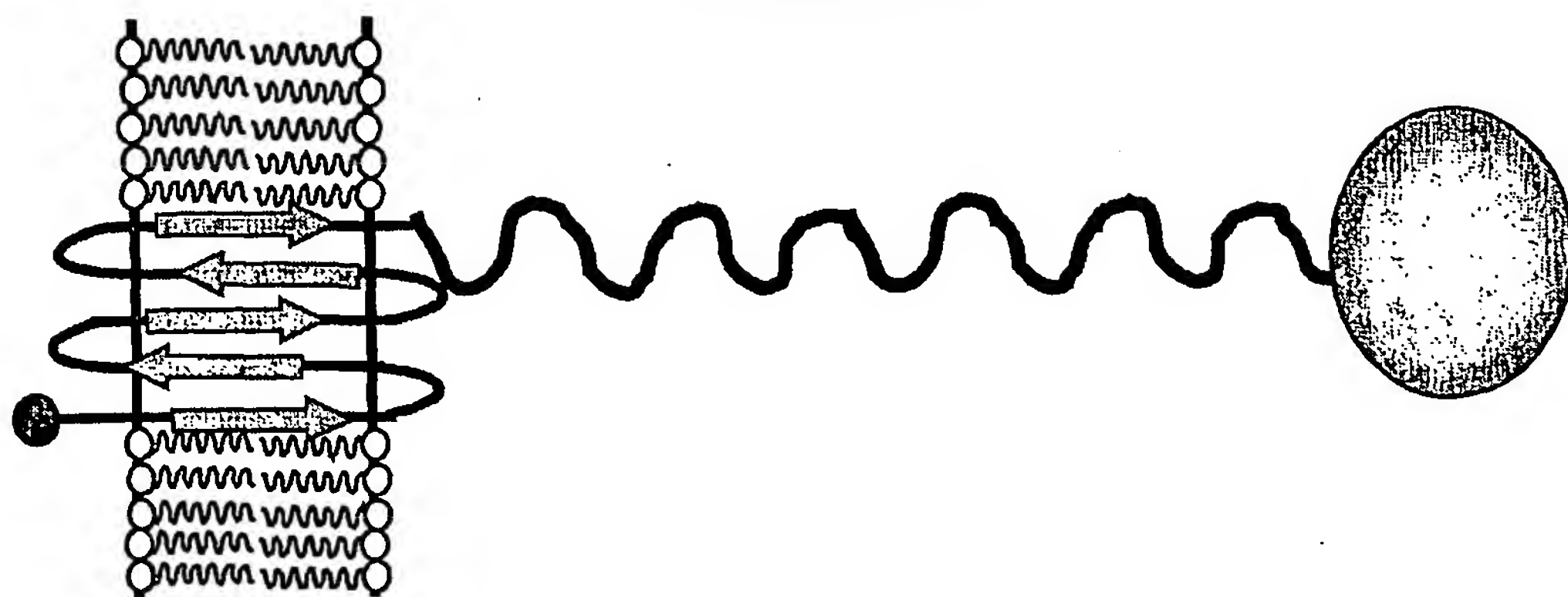
FIGURE 16

ECK1	AGTASAIPIASQPQVKTGDMVMSAGAGTENGESEAVSVGTS--FNAGHTVLKAGISADTQSDFGAGVGVGYSE-
EHEC	AGTASAIPIASQPQVKTGDMVMSAGAGTENGESEAVSVGTS--FNAGHTVLKAGISADTQSDFGAGVGVGYSE-
EPEC	AGTASAIPIASQPQVKTGDMVMSAGAGTENGESEAVSVGTS--FNAGHTVLKAGISADTQSDFGAGVGVGYSE-
EAEC	AGTASAIPIASQPQVKAGDFMMSAGAGTENGESEAVSVGTS--FNAGHTVIKAGVSADTQSDFGAGVGVGYSE-
HAESO	AGIEPAVALGMLPQSTAPEKSLVSLGVGHHREQSPATIGVSS-MSSNGKWVVKGGMSYDTQRHATEGGSVGTFEN
RALSO	SEIEAATALTMLPDVDQKGKSTATGIGSATYKEYQAVALGASA-RISHN-LKAKMGVGYSSSE-GTTVGMGASYQW-
BURFO	AEIEAATALTMLPDVDQKGKTHAVGVGGSSYKESQAVALEISA-RITON-LKMKAGAGTSSQ-GTTVGLSASYQW-
SAA	AGIEGAMAMTALPMID-GKQYSFGMAASNVRDEQATAAGHIE-RTSEN-TVVRINTSWDTQHGTGVATGMSIGW-
UPEC	GGIASAMAMTGLPQAYTPGASMASIGGGTYNGESAVALEVSM-VSANGRWVYKLOGSTNSQGEYSAALCAGIQW-
SHIFL	GGIASAMAMTGLPQAYTPGASMASIGGGTYNGESAVALEVSM-VSANGRWVYKLOGSTNSQGEYSAALCAGIQW-
NADA	QGLAEQAALSELFQPYNVGRFNTPAVGGYKSESEVAIGTIGFRFTENFAAKAGVAVGTSSGSSAAAHVGVNYEW-
HADA	RELAAQAALNGLFQPYNVGKLNLTAVGGYKSKTAVAVGTIGFRFTENFAAKAGVAVGTSSGSSAAAHVGVNYEW-
ACTAC	NELASQAALSGLFQPYNVGSLNLSAAVGGYKSKTELAVGSGYRFNQNVAAKAGVAVSTNGGS-ATYNVGLNFEW-
EIBC	RAAAQSAALTGLFQPYSVGKFNATAAVGGYSDDQALAVGVGYRFNEQTAAGVAFSD-GD--ASWNVGVNFEF-
EIBD	RAAAQSAALTGLFQPYSVGKFNATAAVGGYSDDQALAVGVGYRFNEQTAAGVAFSD-GD--ASWNVGVNFEF-
EIBF	RAAAQSAALTGLFQPYSVGKFNATAAVGGYSDDQALAVGVGYRFNEQTAAGVAFSD-GD--ASWNVGVNFEF-
EIBA	RAAAQSAALTGLFQPYSVGKFNATAAVGGYSDDQALAVGVGYRFNEQTAAGVAFSD-GD--ASWNVGVNFEF-
EIBE	RAAAQSAALAGLFQPYSVGKFNATAALGGYSDDQALAVGVGYRFNEQTAAGVAFSD-GD--VSXNMGVNFEF-
USPA2	NGMAQAALSGLFQPYSVGKFNATAALGGYKSKSAVAIGAGYRVNPNLAFKAGAAINTSGNKKGSYNTGVNYEF-
YADA	KELASSAALNSLFQPYGVGKVNFTAGVGGYRSSQALAGSGYRVNENVALKAGVAYAGSSD--VMYNASFNIEW-
DSRA	TELANQSAALSMVQPNVGKTSVSAVGGYRDKTALAIGVGSRTDRETAAGVAFNTYNGG-MSYGASVGYEF-
BRUME	AGAANAALSLRYDNRPGKVSATGTVGGFKGSTALAAGIGY-TSKNENARYNVSVAYNEAGTSWNAGASF.TLN
BRUSU	AGAANAALSLRYDNRPGKVSATGTVGGFKGSTALAAGIGY-TSKNENARYNVSVAYNEAGTSWNAGASF.TLN
BRUME2	QAAAIGLAAASLRYDDRPGKISAAIGGGFWRGEGAVALEIGH-TSEDQRMRSNLS-AATSGGNWGMGAGFSYTEN
BRUSU2	QAAAIGLAAASLRYDDRPGKISAAIGGGFWRGEGAVALEIGH-TSEDQRMRSNLS-AATSGGNWGMGAGFSYTEN
SINME	QAAAIGLAAASLRFDPGKLSVALGGGFWRSEGALAFAGGY-TSEDGRVRANLT-GAAAGGNVGVGAGLSITLN
BRAJA	GGVALALAASSLQFDRPDKTSVSGGFGNEQGGSLAVGLGY-SYSD-AMRFNAAFATAAQGAIGVRAGASWTLN



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FIGURE 17



ANCHOR

STALK

HEAD

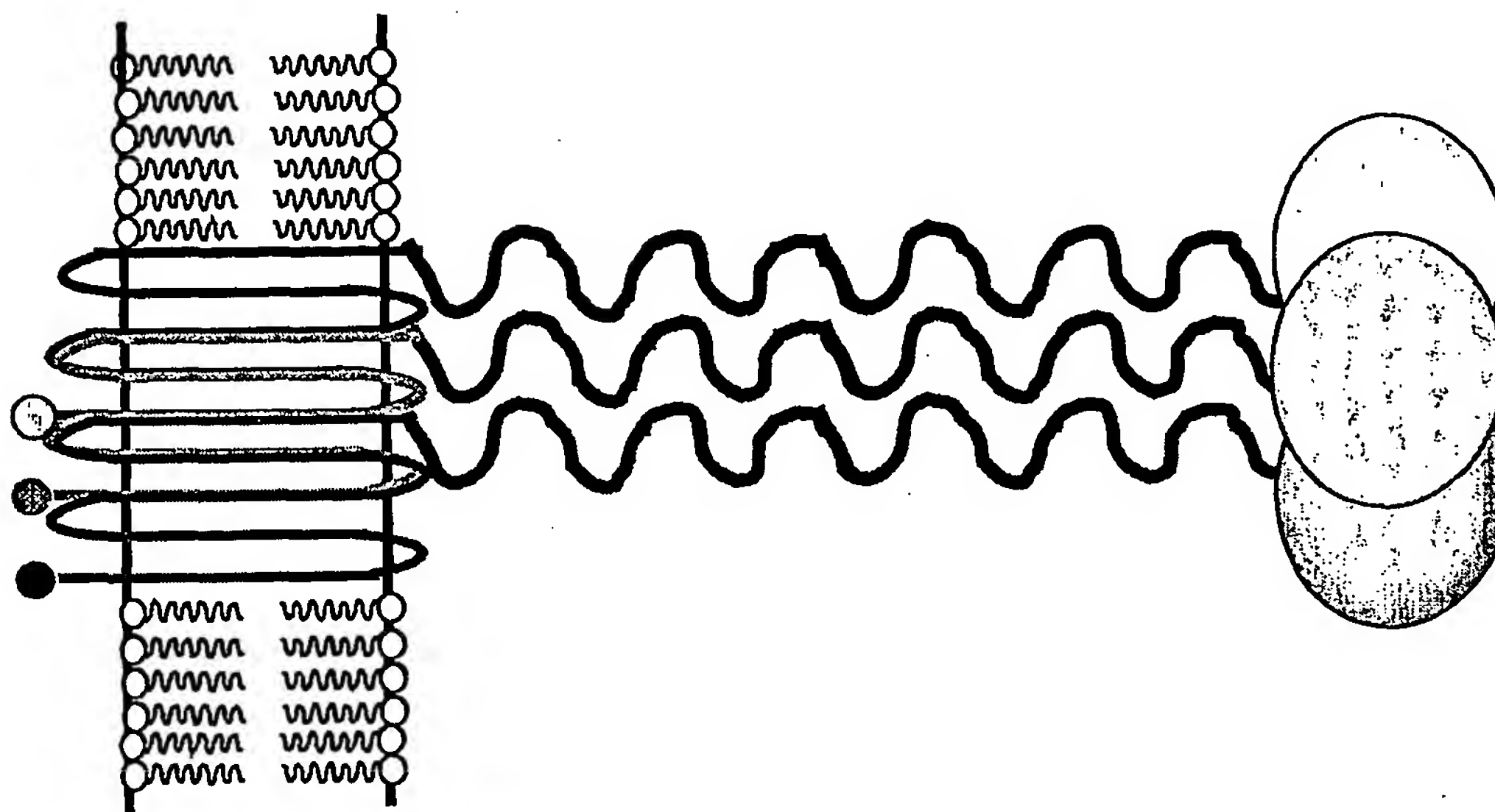
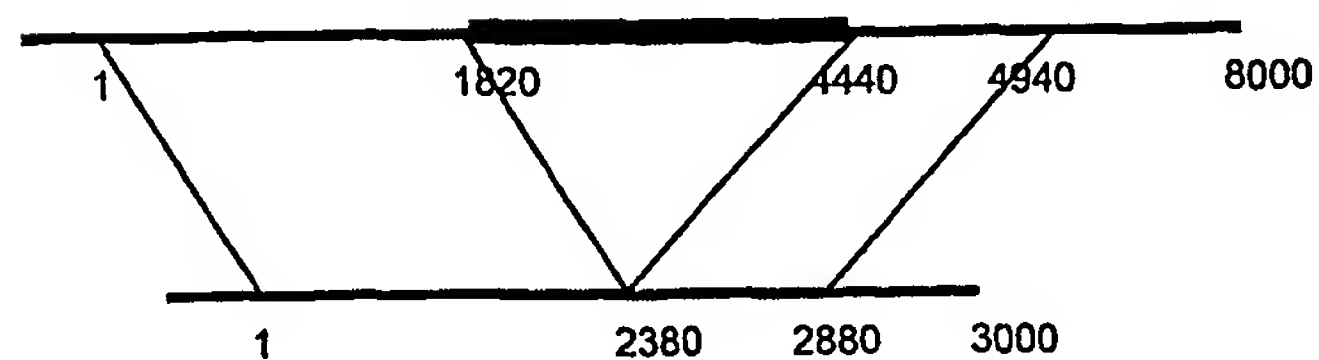
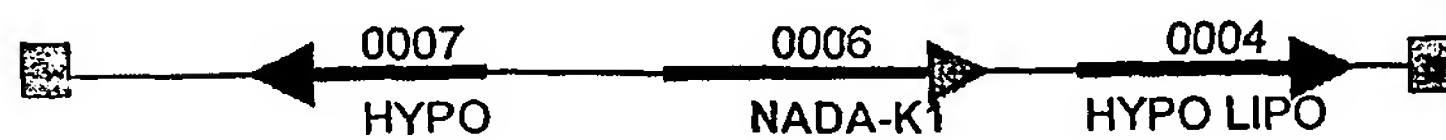


FIGURE 20

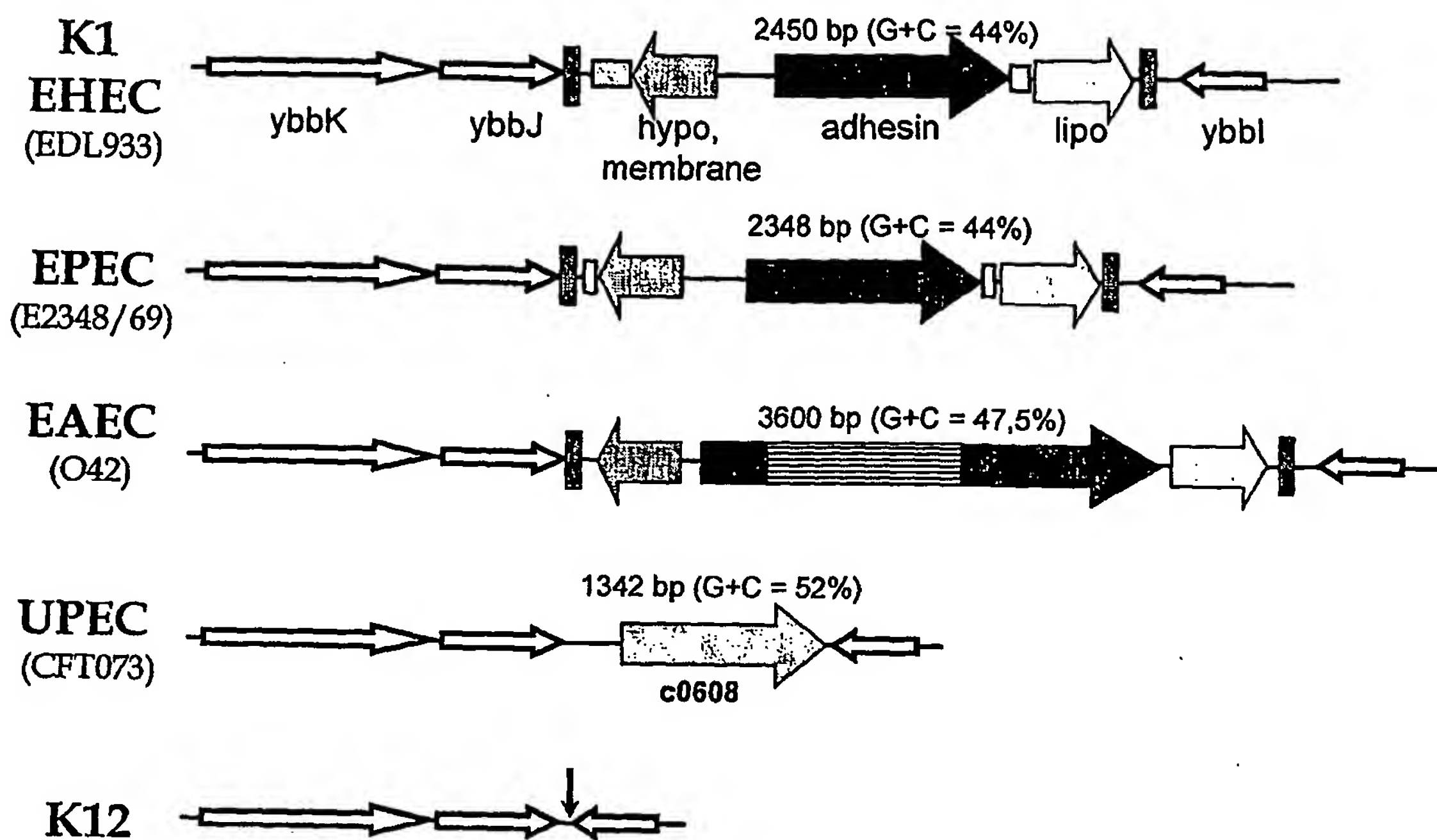
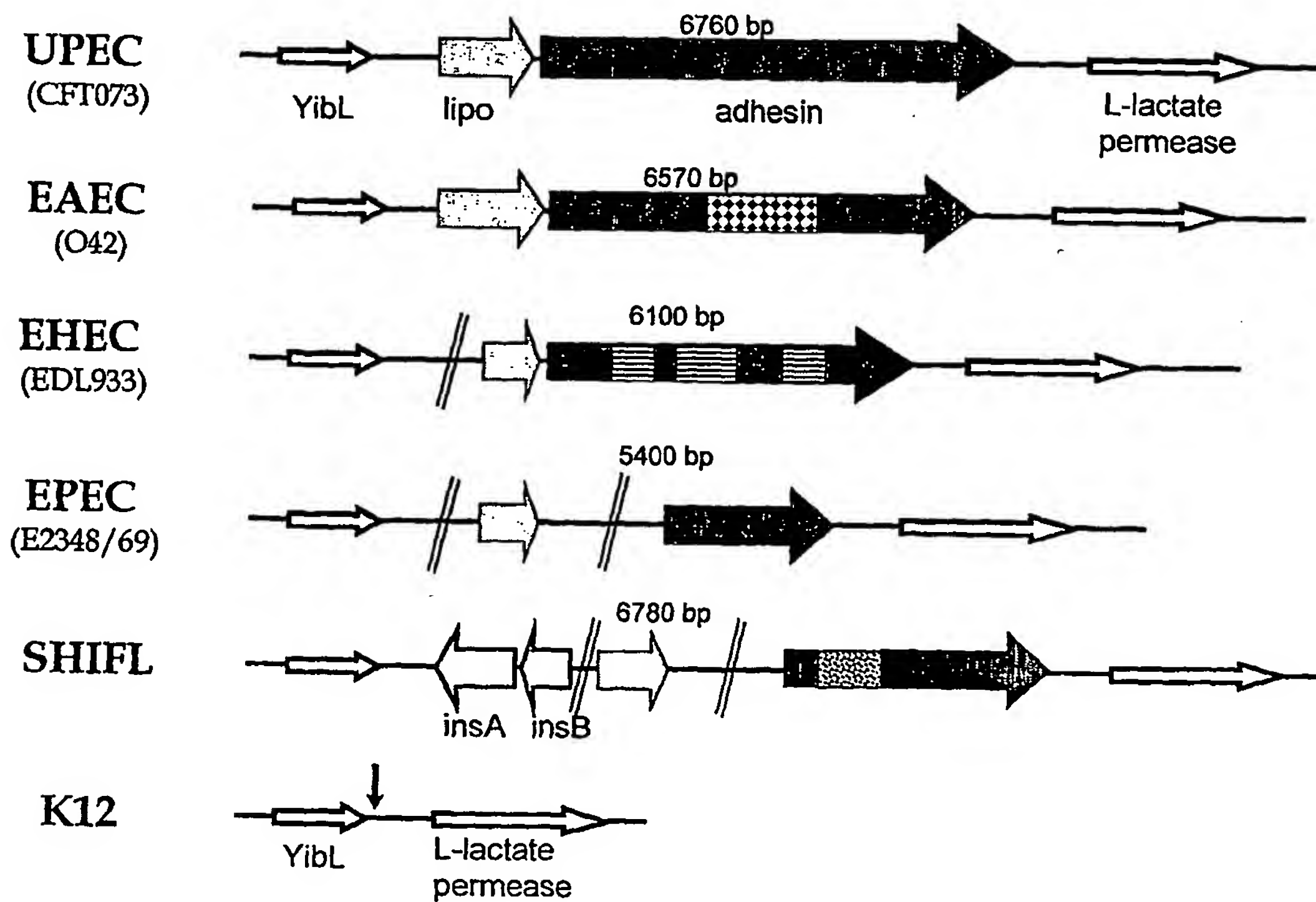


K1

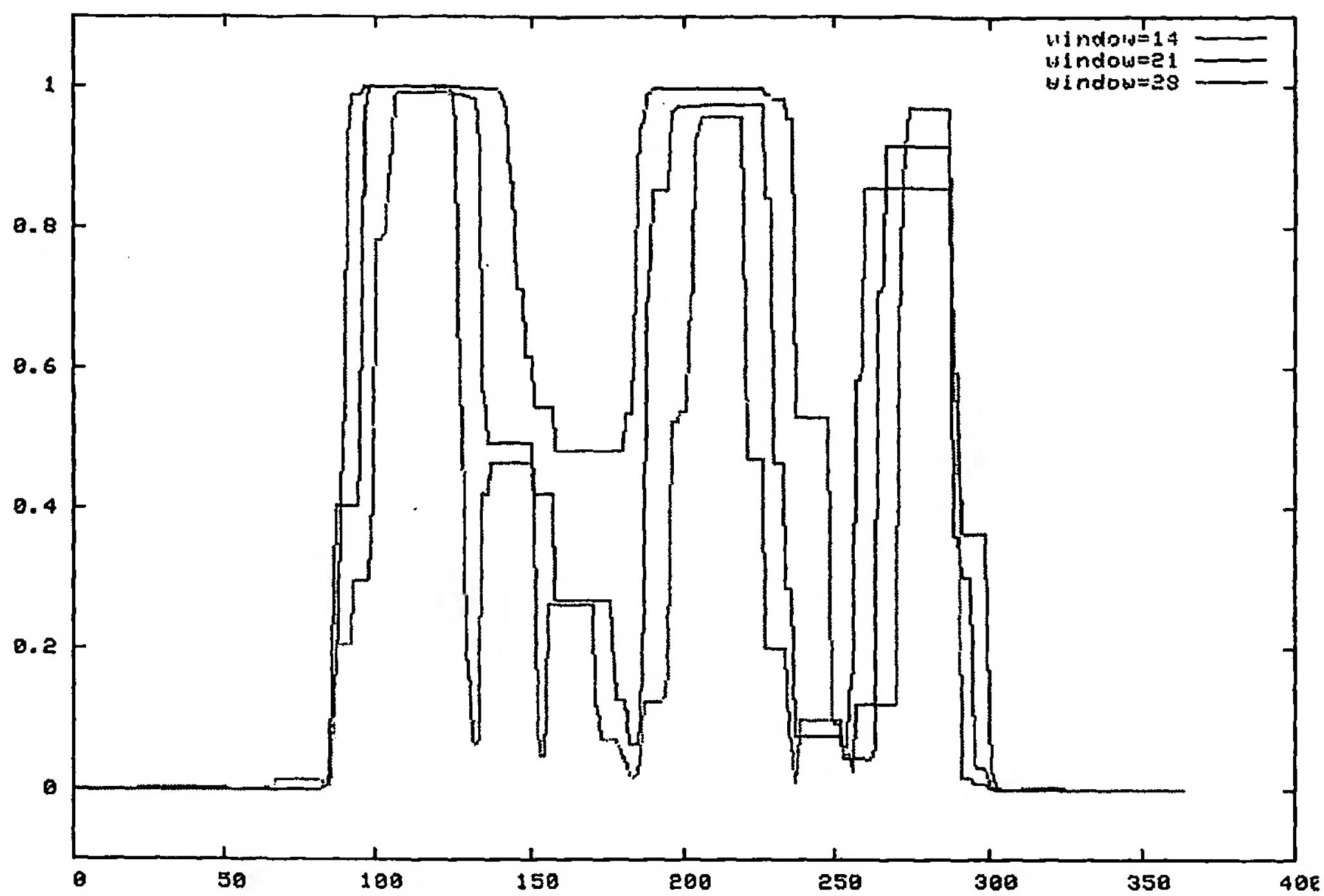
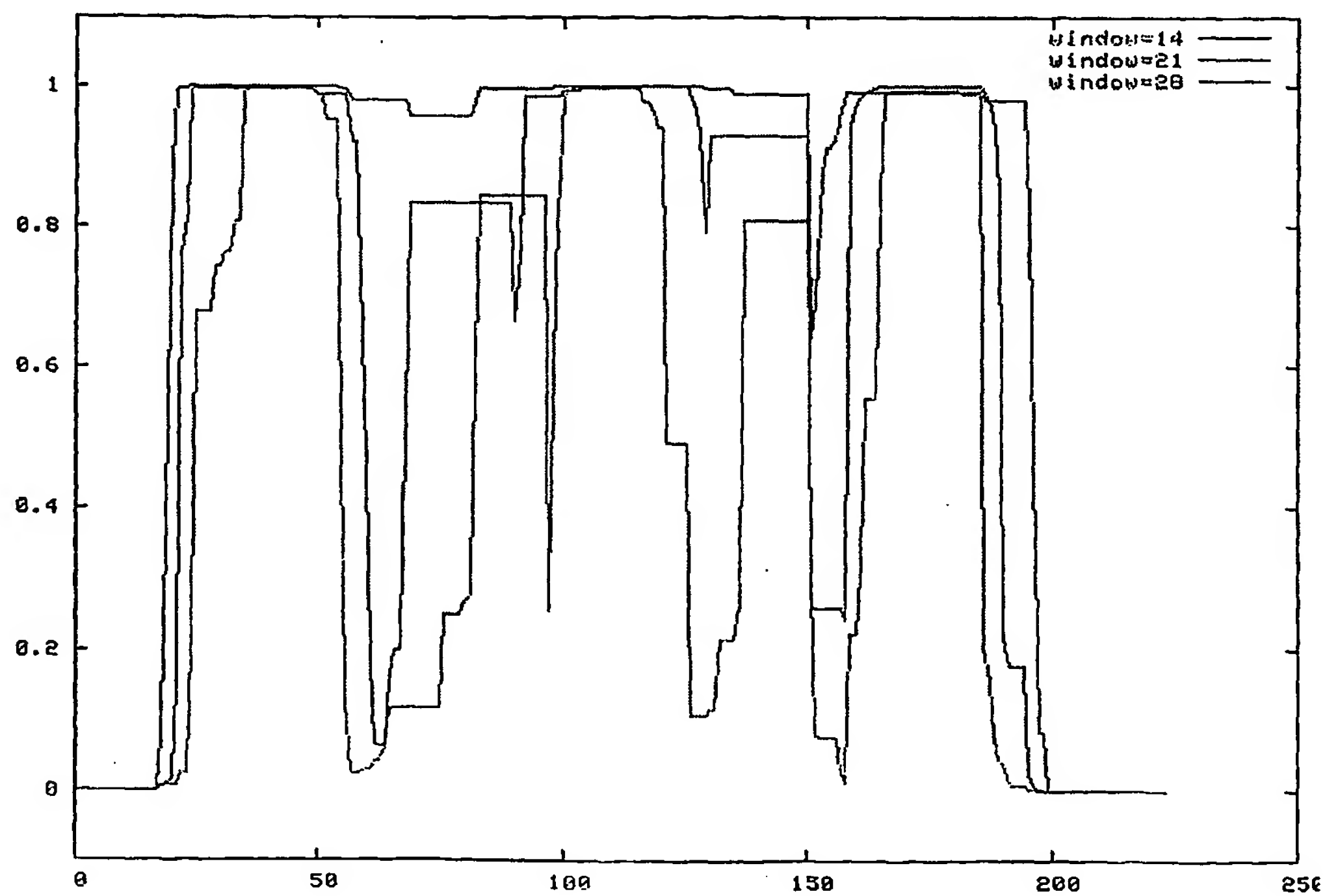
K12



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FIGURE 18**FIGURE 19**

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FIGURE 21**FIGURE 21A****FIGURE 21B**

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FIGURE 22

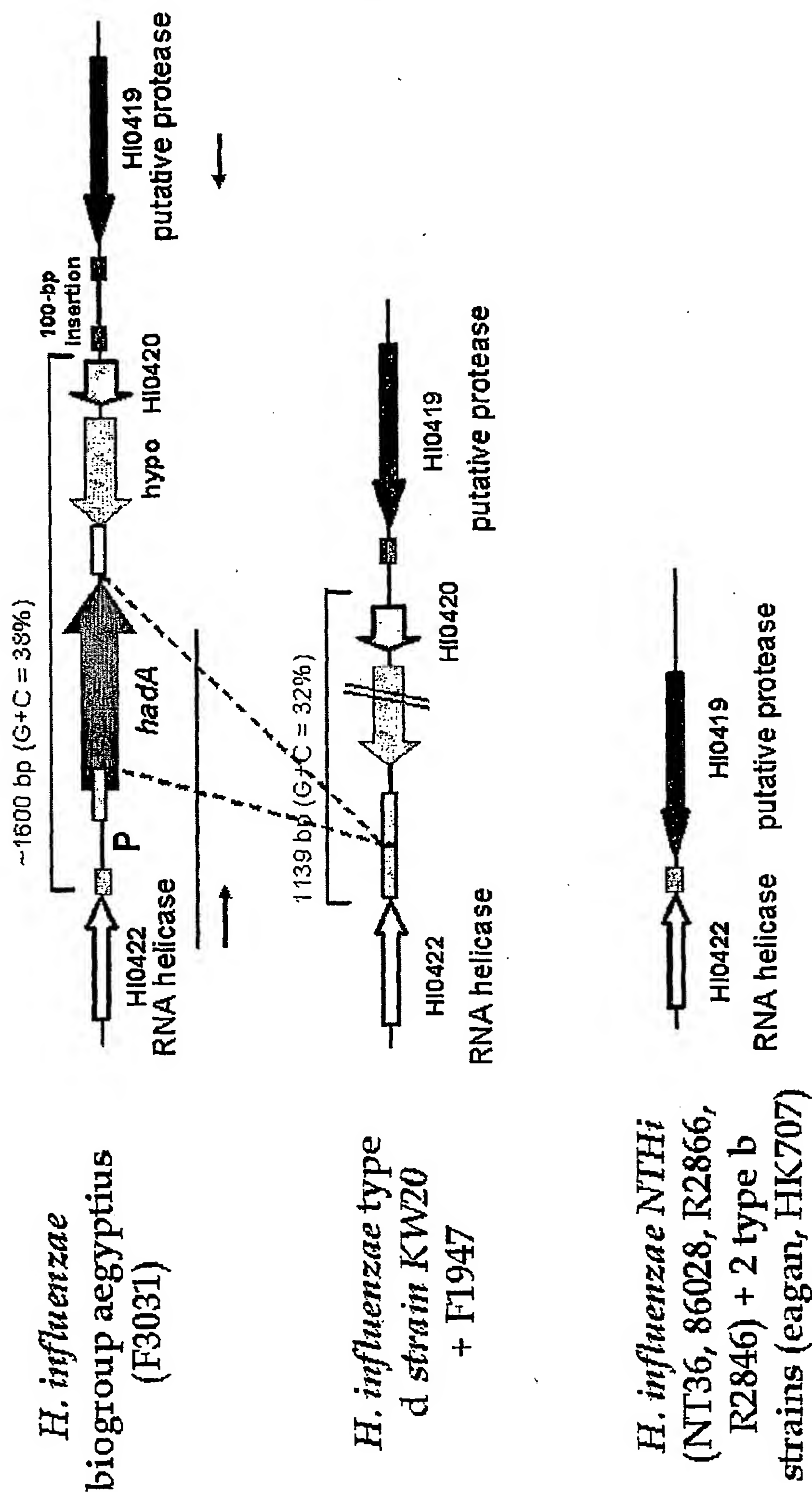
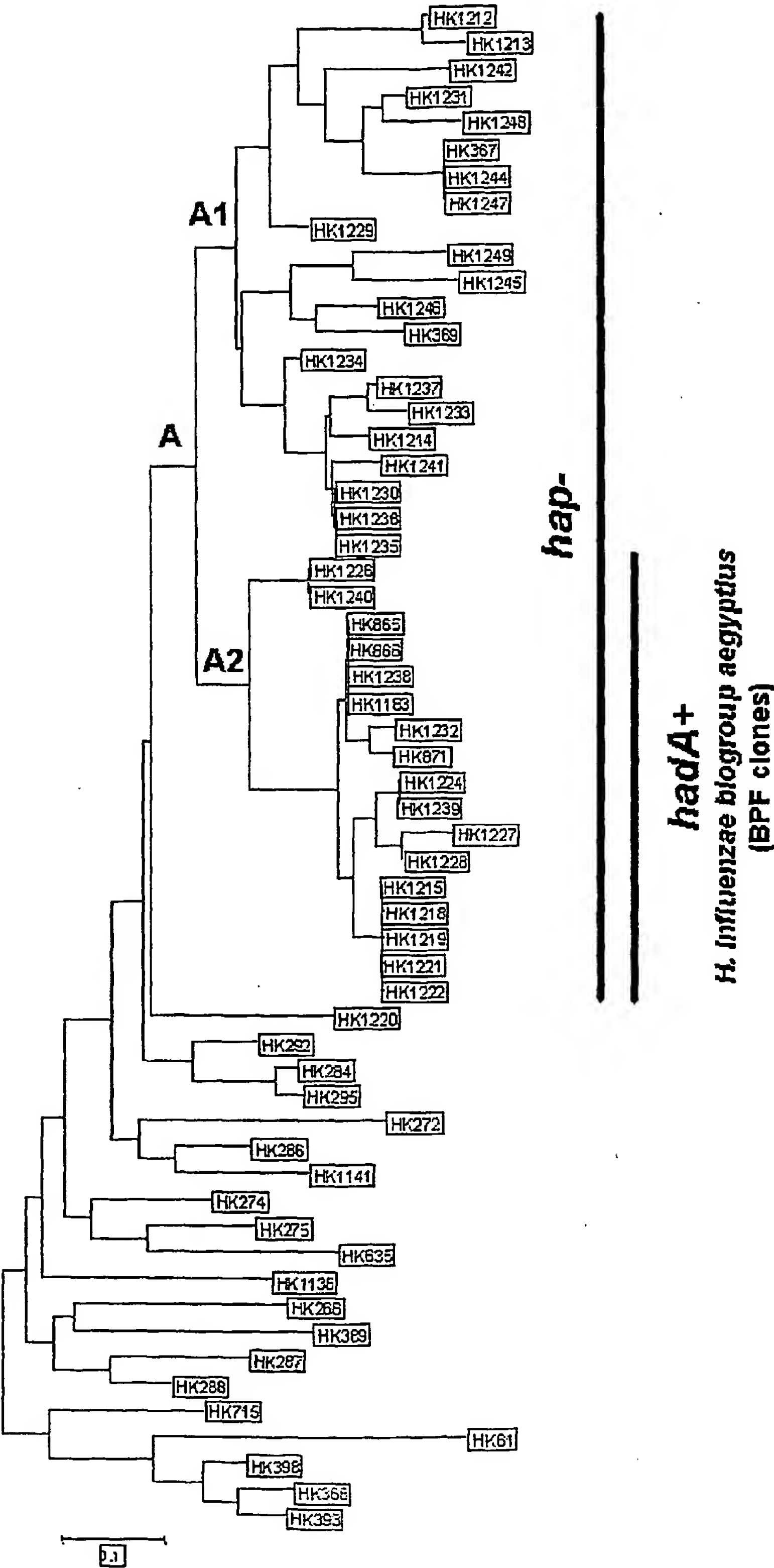


FIGURE 23



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FIGURE 24

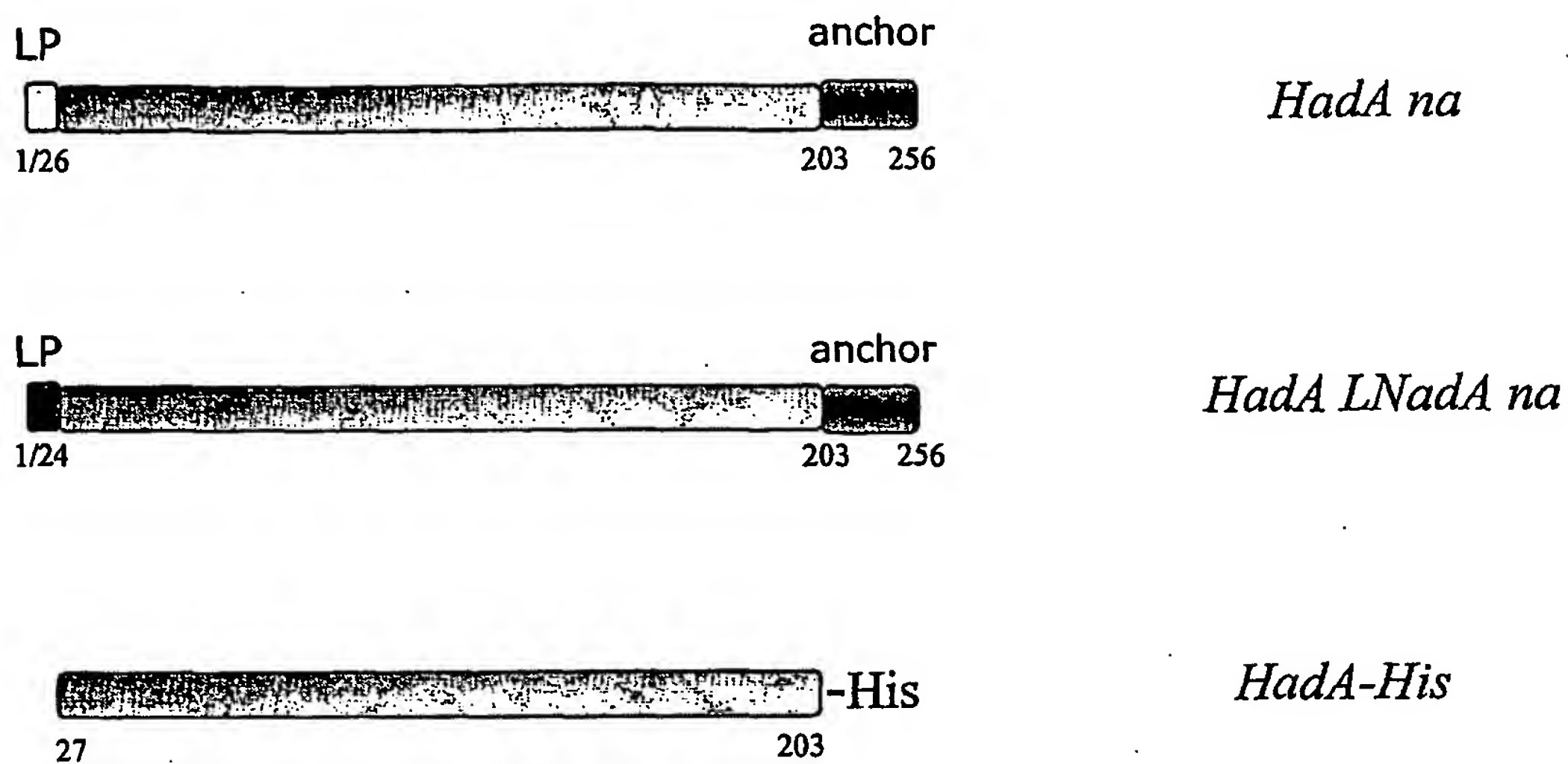
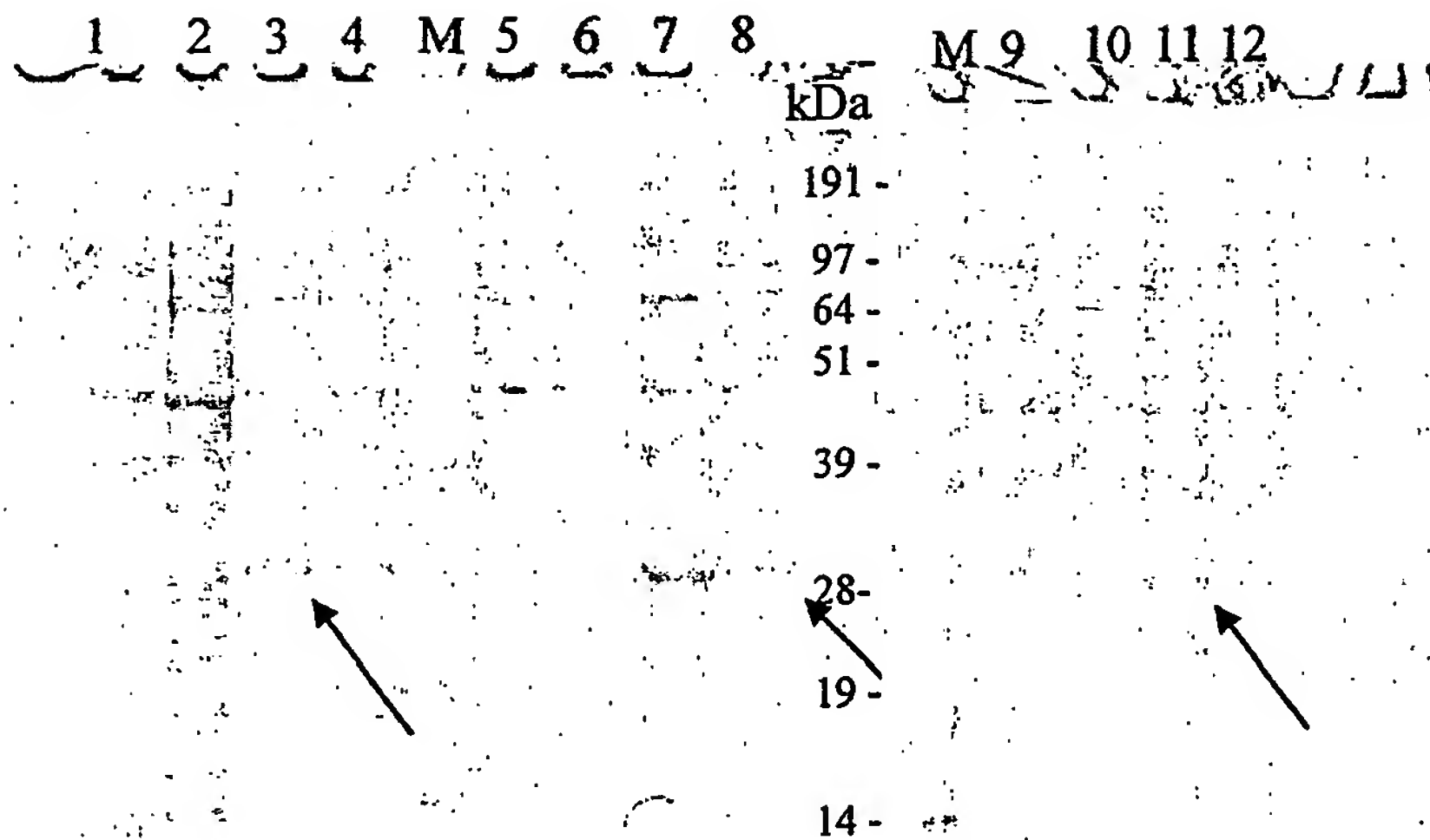


FIGURE 25



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FIGURE 26

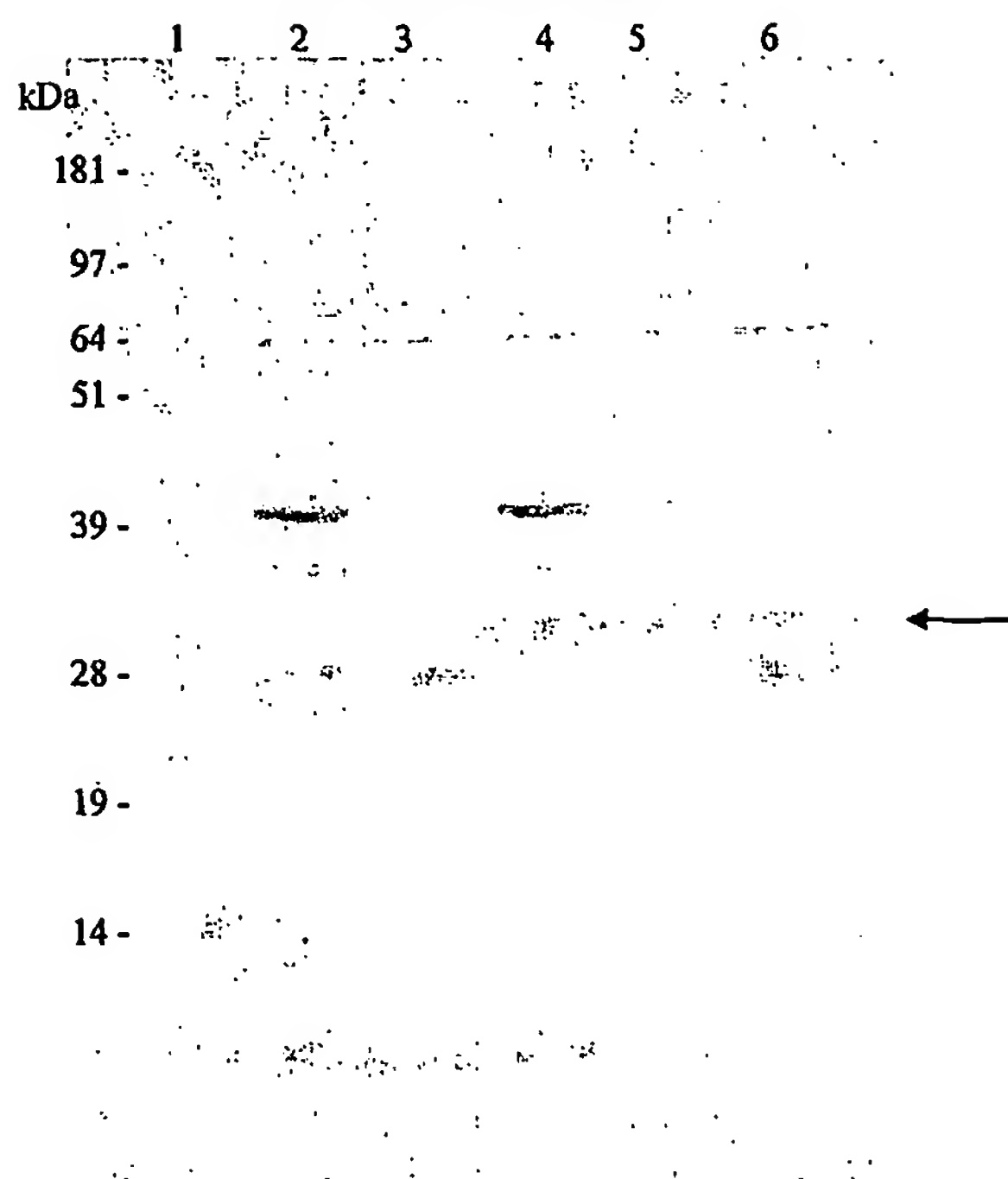


FIGURE 29

FIGURE 29A

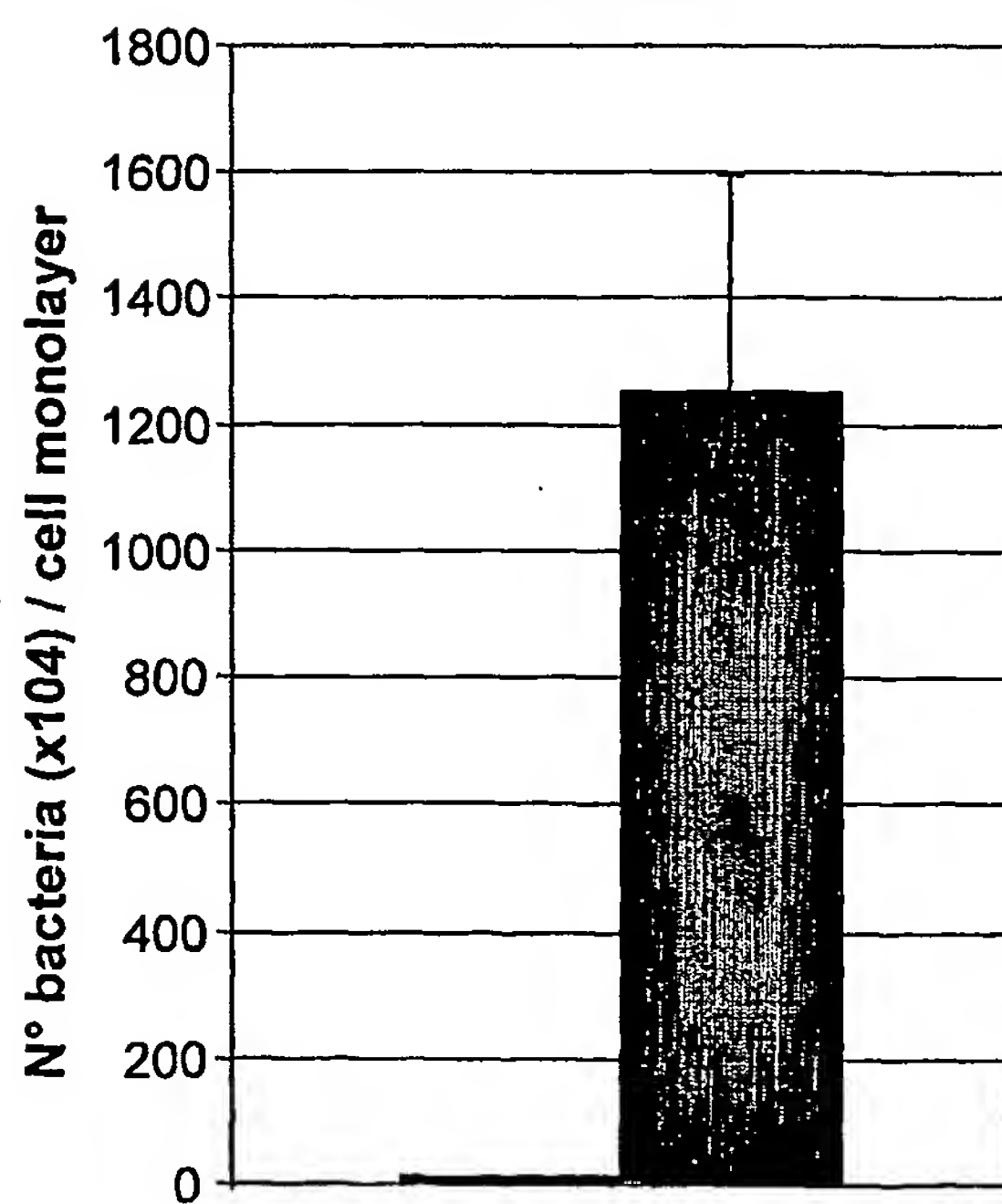
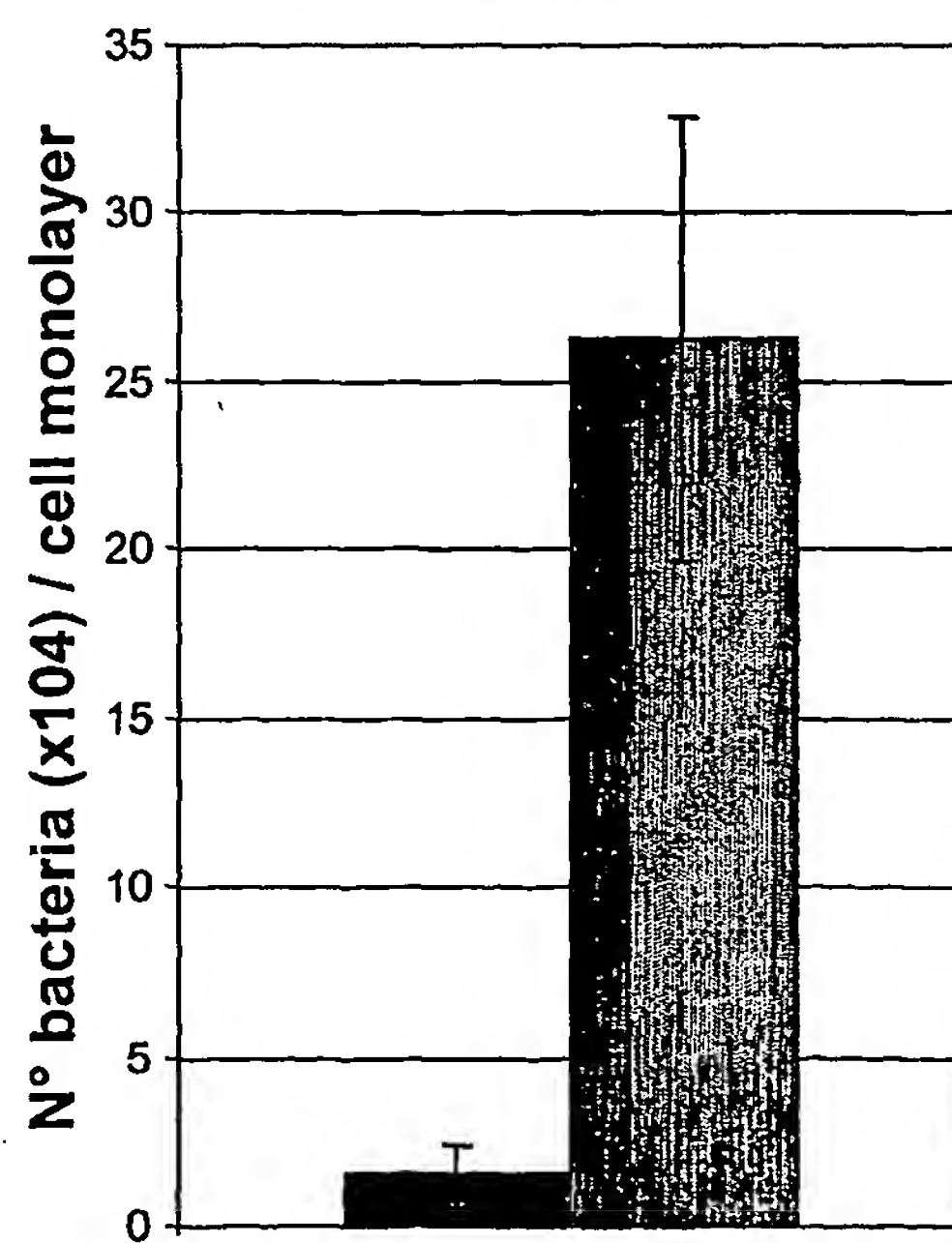


FIGURE 29B



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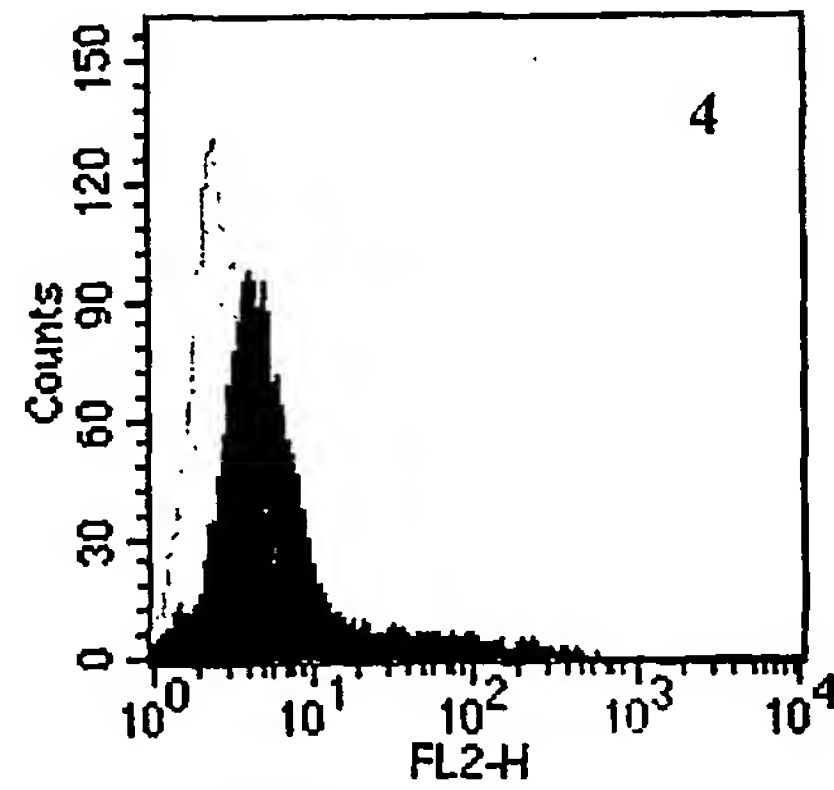
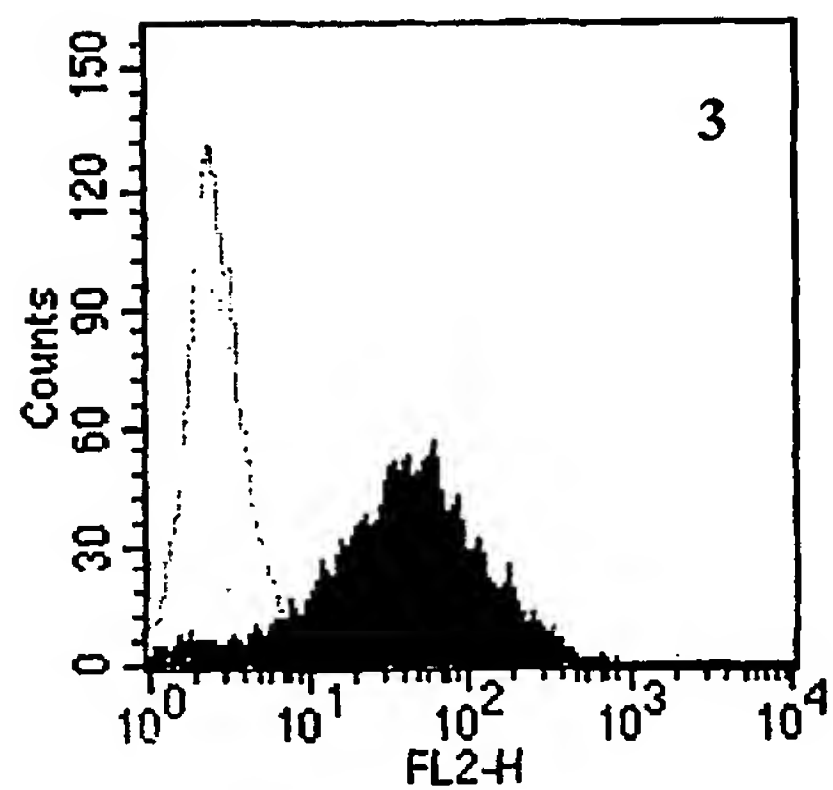
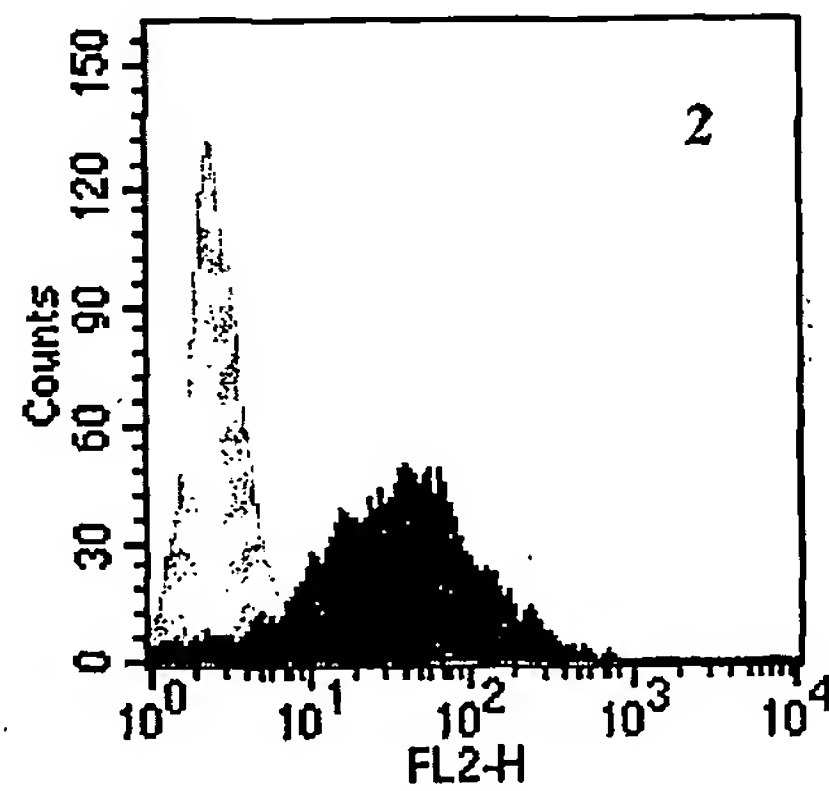
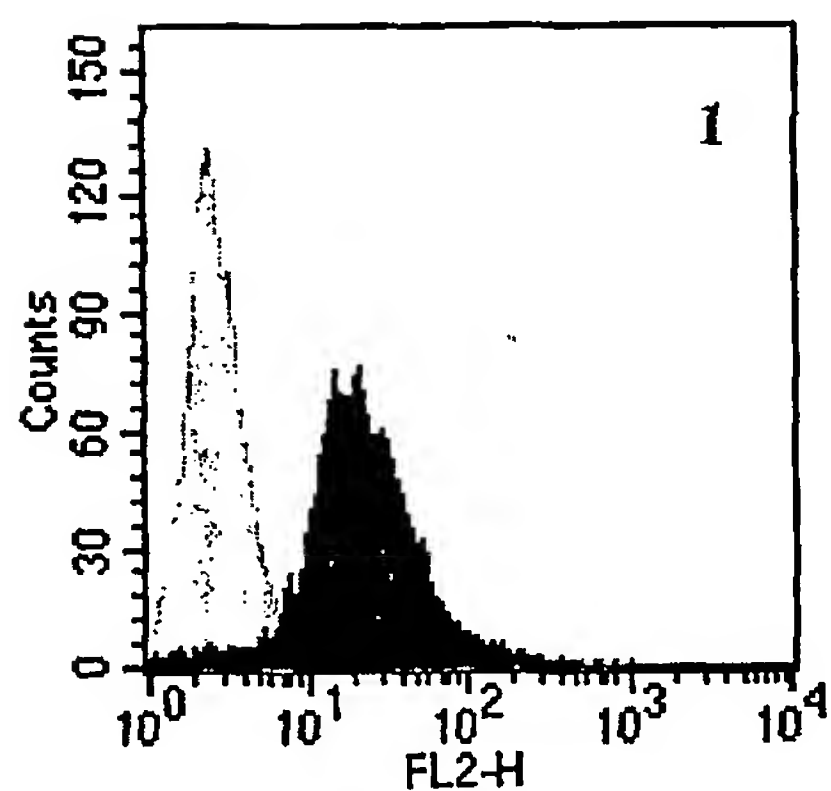
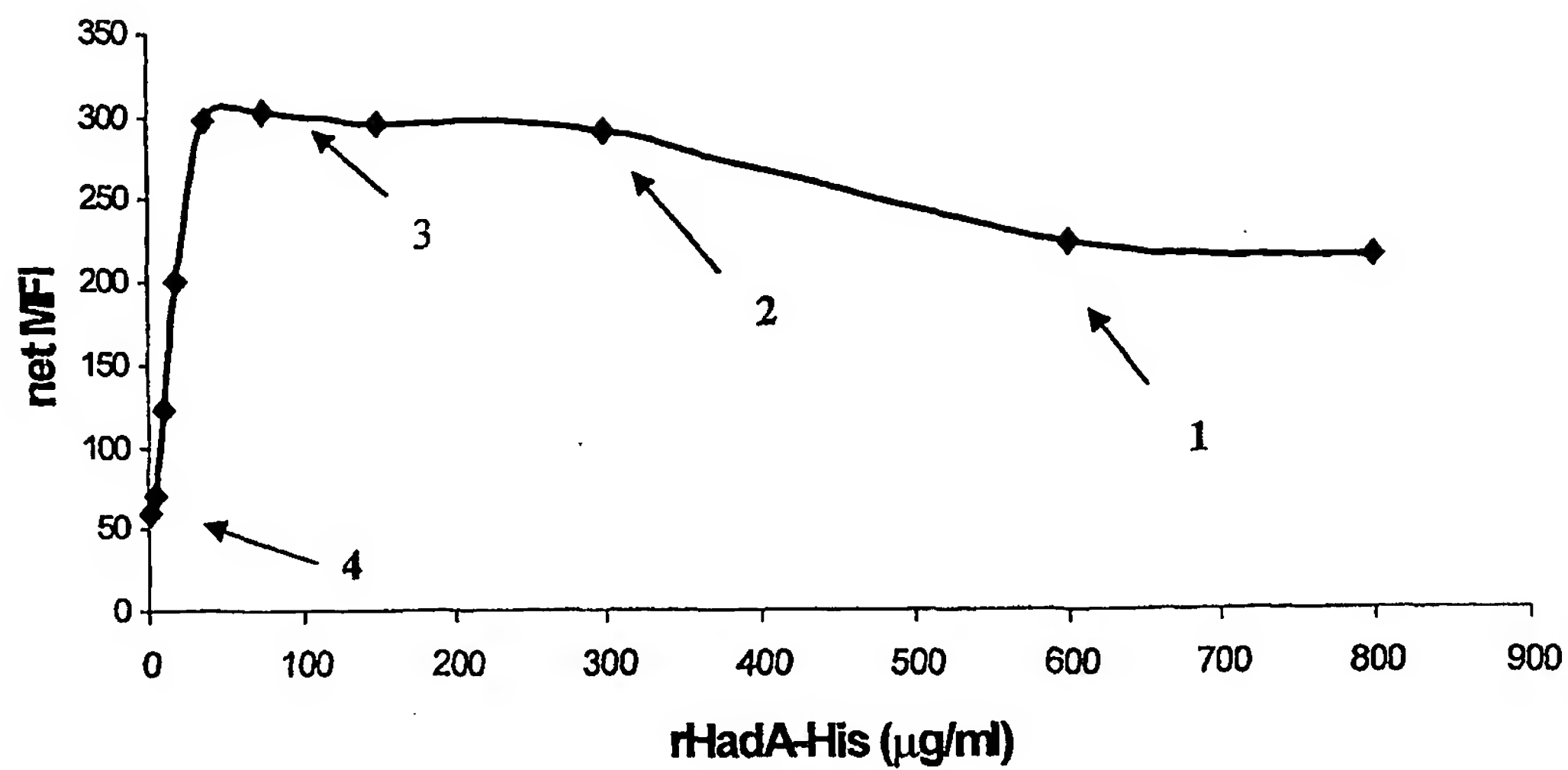
FIGURE 27

FIGURE 28

FIGURE 28A



FIGURE 28B

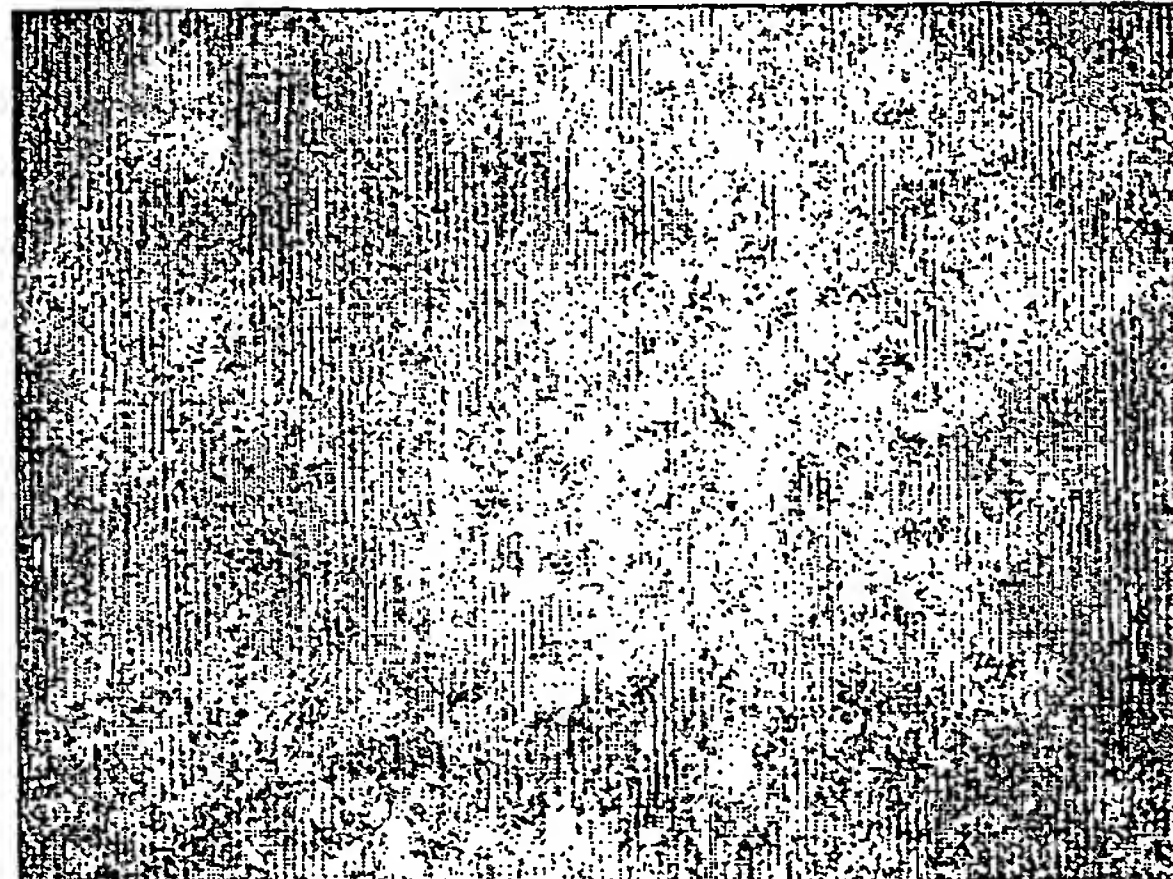


FIGURE 28C

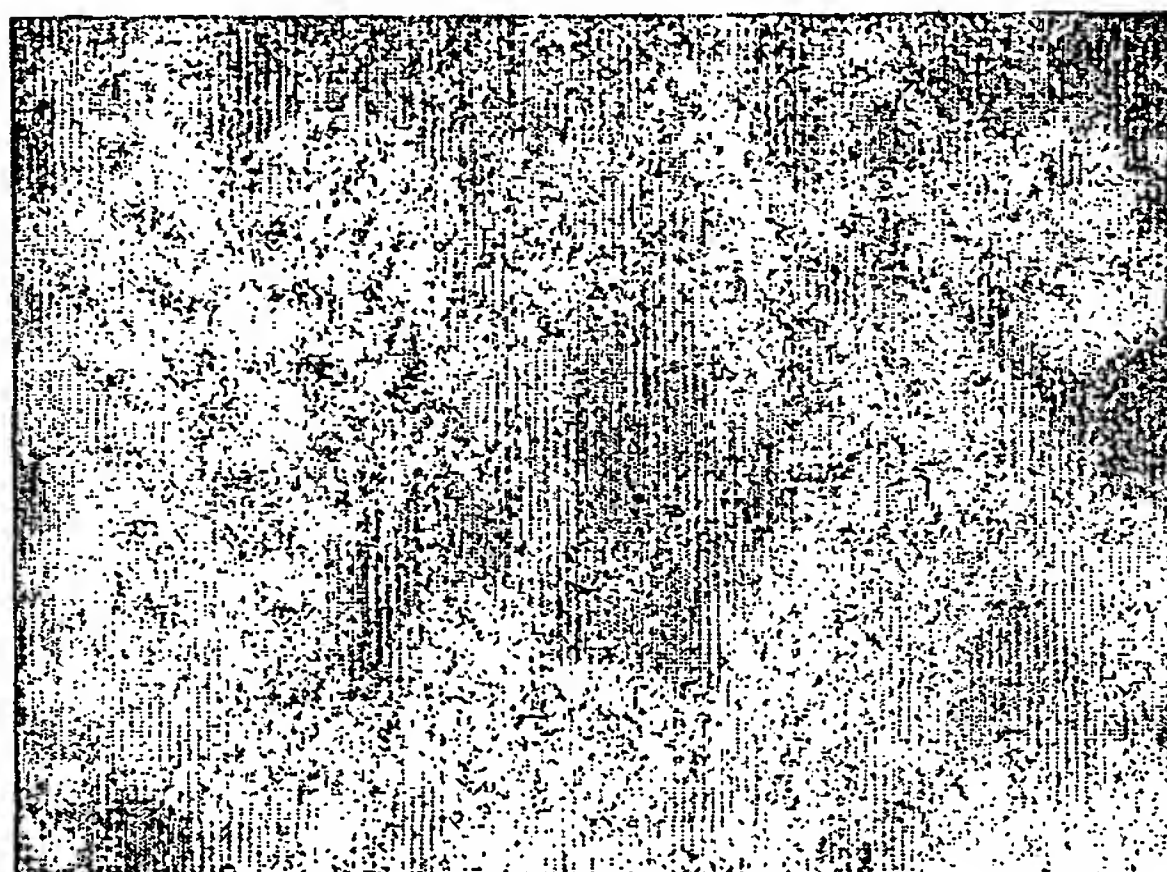
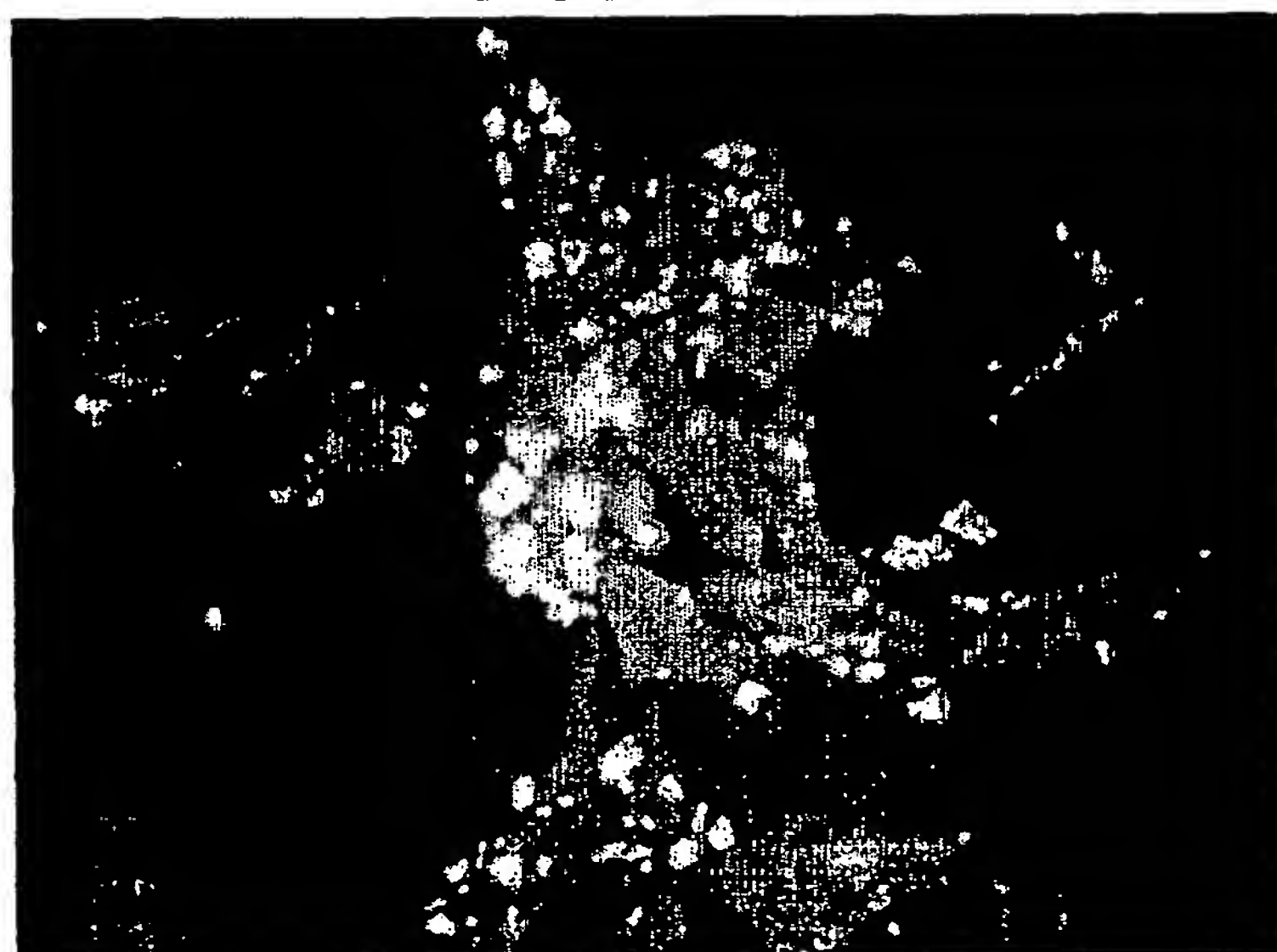


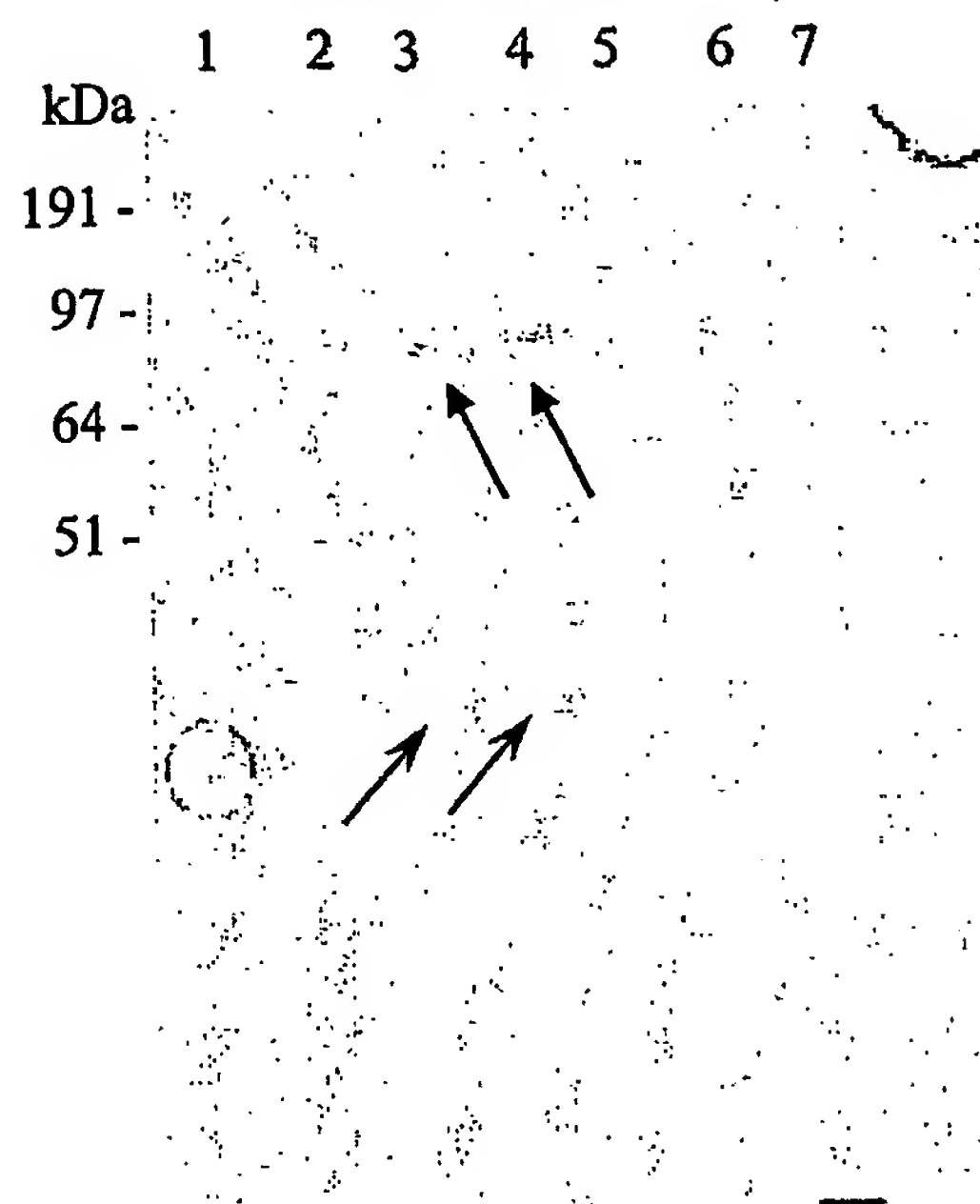
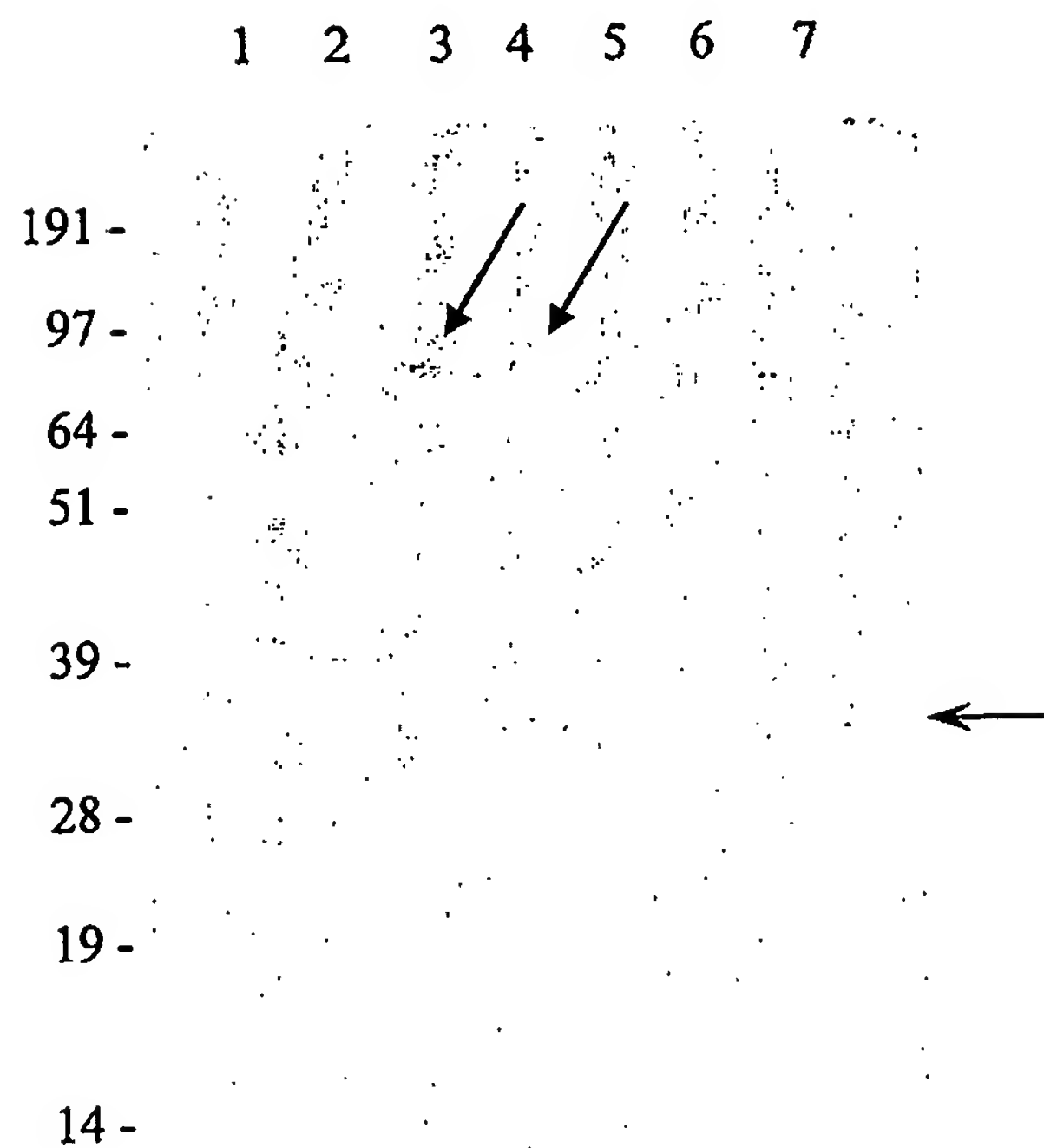
FIGURE 28D



FIGURE 30

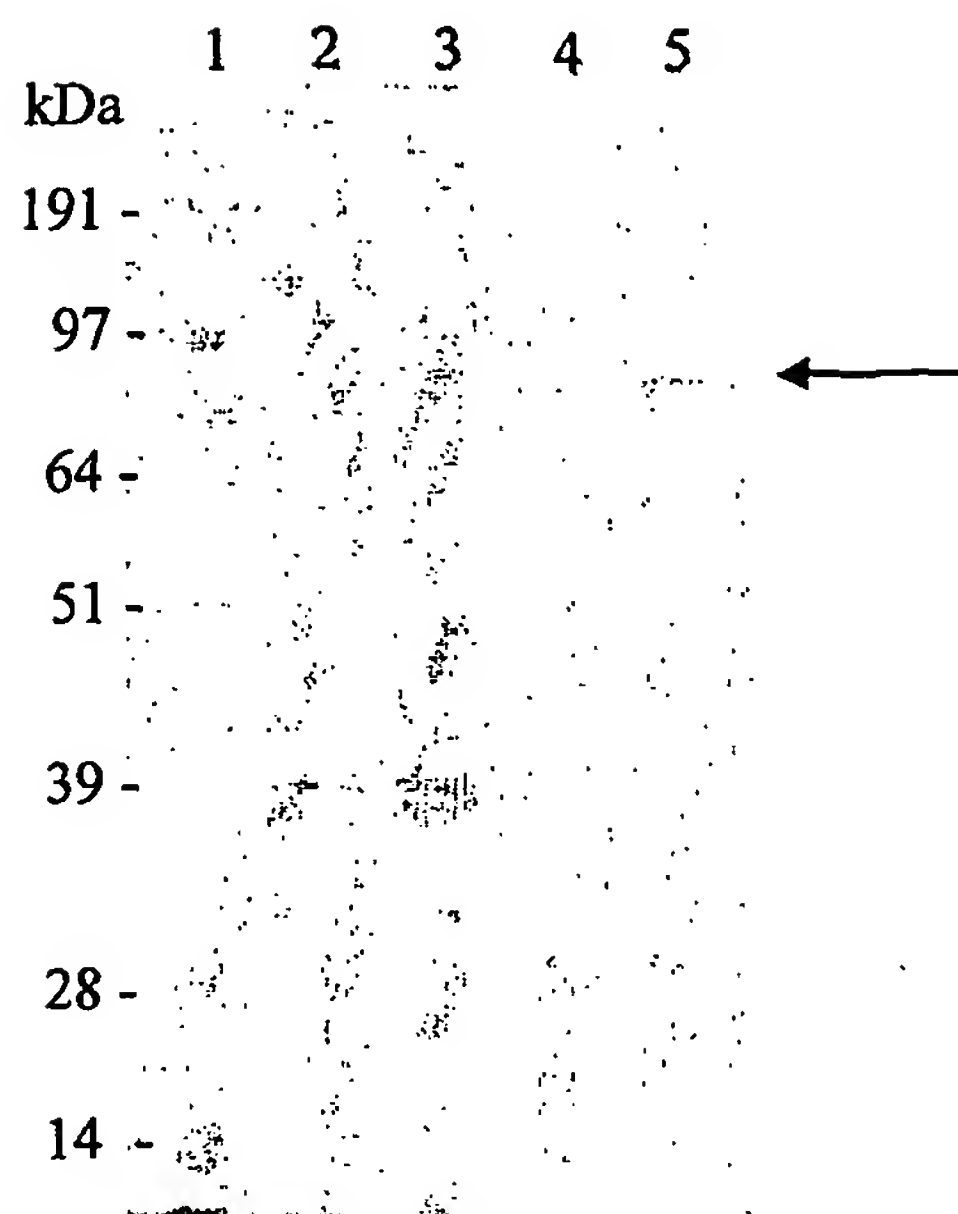
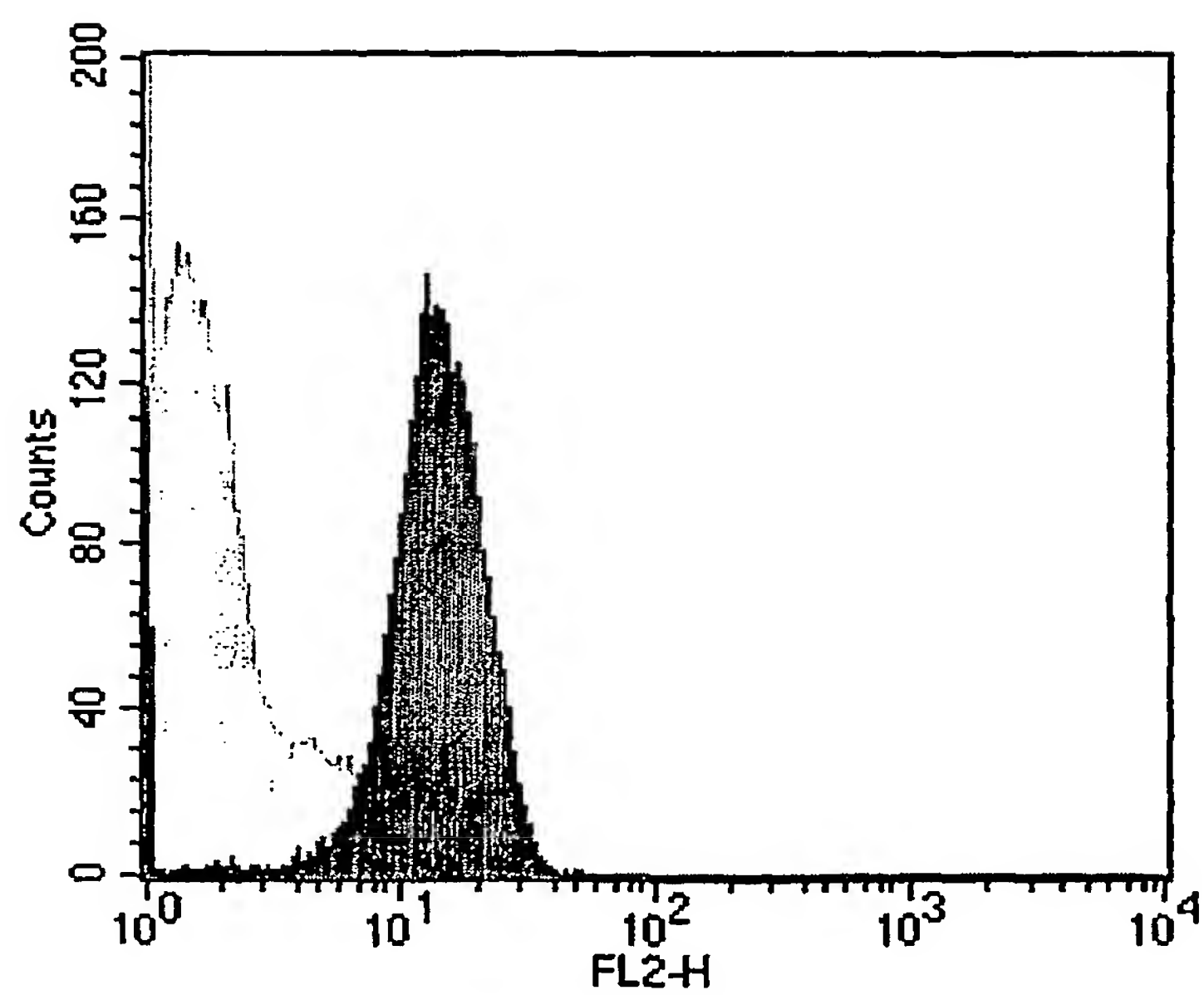


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FIGURE 31**FIGURE 32**

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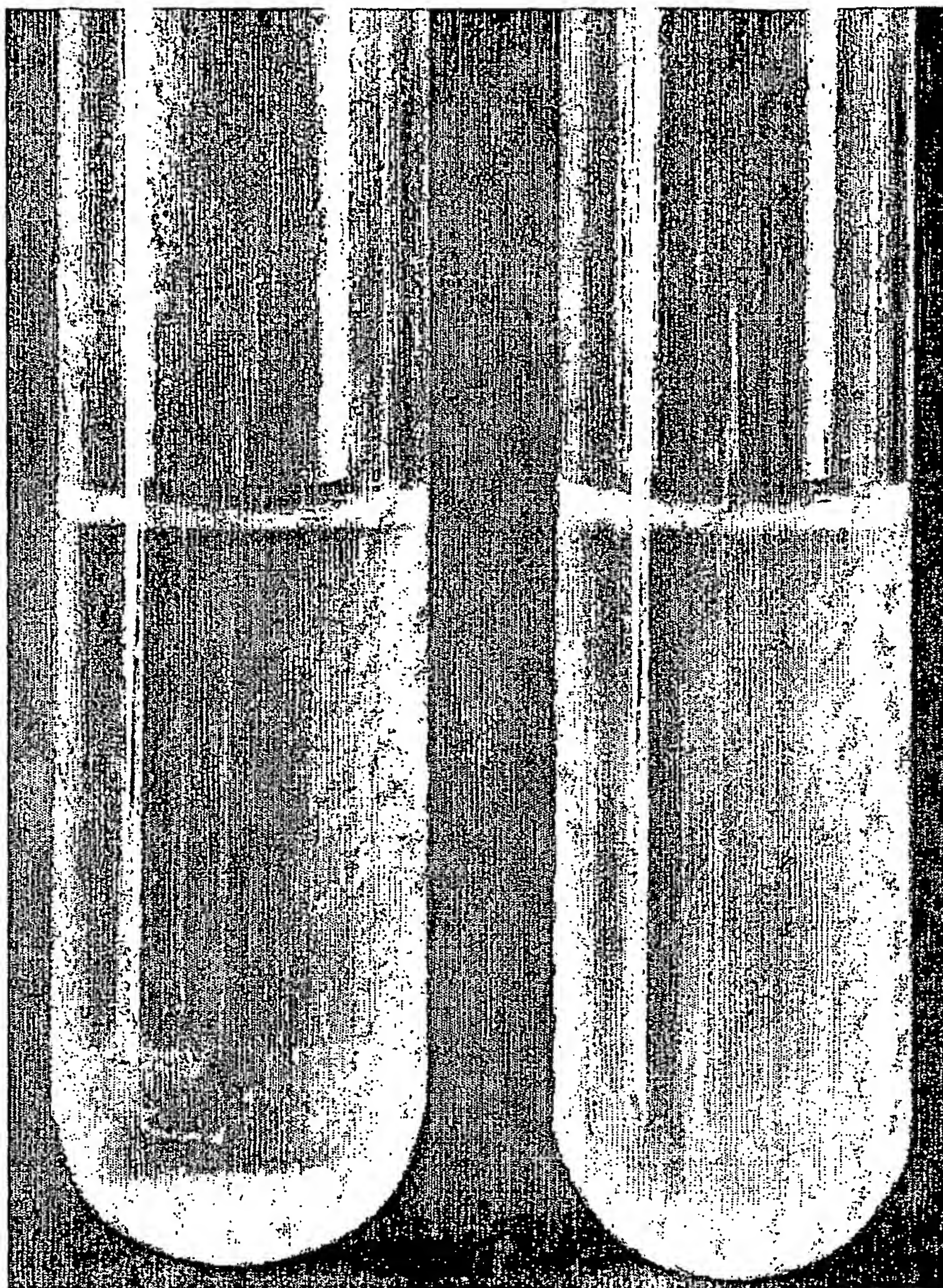
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FIGURE 33**FIGURE 34**

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FIGURE 35



HadA⁺

HadA⁻

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